

# Linear Patterns (General-Use)

#### FEATURES

- Gage patterns designed for measuring strain in a single direction
- Single-grid and parallel dual-grid patterns
- Gage lengths from 0.008" (0.20 mm) to 4.000" (101.6 mm)

#### PATTERNS

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| 062ED                 | 29 |
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| AGE PATTER  | RN DATA        |                                   |   |  |                    |
|-------------|----------------|-----------------------------------|---|--|--------------------|
|             |                |                                   | GA(<br>DESIGN                           |  |                    |
|             |                |                                   | See No                                  | te 1, 3 See Not  | e 2 See Note 3     |
| 1           |                | ال<br>actual size                 | DESCRIP<br>Micro-mini                   | DJ-120<br>120 ± 0.<br>DJ-120<br>120 ± 0.<br>DJ-120<br>120 ± 0. | 3%<br>6%<br>6%     |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S | Legend<br>on CP :<br>1 = Section 1) M : | = Complete Pattern<br>= Matrix                                 | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width                        | Overall Width                           | Matrix Length  | Matrix Width       |
| 0.015       | 0.100          | 0.020                             | 0.020                                   | 0.23   | 0.12               |
| 0.38        | 2.54           | 0.51                              | 0.51                                    | 5.8  | 3.0                |

| GAG    | <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |              |                                   |  |  |  |
|--------|---|--------------|-----------------------------------|--|--|--|
| Series | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA     | Constantan foil in combination with a tough, flexible, polyimide backing.       | ±3%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| EP     | Annealed constantan foil with tough, high-elongation polyimide backing.         | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA     | Fully encapsulated constantan gages with solder dots.                           | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK     | Fully encapsulated K-alloy gages with solder dots.                              | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



|             | RN DATA        |   |      | GAC                                  |                        | RESISTANCE<br>(OHMS)     | OPTIONS                      |
|-------------|----------------|---|------|--------------------------------------|------------------------|--------------------------|------------------------------|
|             |                |   |      | See No                               |                        | (011110)                 |                              |
|             |                | ⊠<br>actual size                                |      | L2A-XX-015LW-120<br>C2A-XX-015LW-120 |                        | 120 ± 0.6%<br>120 ± 0.6% |                              |
|             |                |   |      | DESCRIPT<br>Widely use               |                        | ourpose gage.            | Pb-free<br>RoHS<br>COMPLIANT |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S <sup>-1</sup> | on   | egend<br>CP =<br>on 1) M =           | = Complete<br>= Matrix | Pattern                  | inch<br>millimeter           |
| Gage Length | Overall Length | Grid Width                                      | Over | all Width                            |                        | Length                   | Matrix Width                 |
| 0.015       | 0.052          | 0.020   | (    | 0.034                                | 0.0                    | )75                      | 0.054                        |
|             | 1.32           | 0.50  |      | 0.86                                 | 1.                     | 00                       | 1.37                         |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |                              |              |                                |  |  |
|---|---|------------------------------|--------------|--------------------------------|--|--|
| Series  | Description                             | I                            | Strain Range | Temperature Range              |  |  |
| C2A   | Encapsulated constantan gages with prea | ttached ready-to-use cables. | ±3%          | –60° to +180°F (–50° to +80°C) |  |  |
|   |   |                              |              |                                |  |  |
|   |   |                              |              |                                |  |  |
|   |   |                              |              |                                |  |  |
|   |   |                              |              |                                |  |  |
|   |   |                              |              |                                |  |  |
|   | Example of an                           |                              | Example of   | an                             |  |  |
|   | L2A Construction                        |                              | C2A Construc | ction                          |  |  |
|   |   |                              |              |                                |  |  |
|   |   |                              |              |                                |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| AGE PATTER  | RN DATA        |                                   |        |                                 |                           |   |                    |
|-------------|----------------|-----------------------------------|--------|---------------------------------|---------------------------|---|--------------------|
|             |                |                                   |        | GAG<br>DESIGN/                  |                           | RESISTANC<br>(OHMS)                           | E OPTIONS          |
| 1 2 2 3 3   |                |                                   |        | See No                          | ote 1                     |   |                    |
|             |                |                                   | 1 size | CEA-XX-015                      | UW-120                    | 120 ± 0.39                                    | 6                  |
| 1           | V              | I                                 |        |                                 | ature patt<br>area is 0.0 | ern. Exposed<br>6 x 0.04 (1.5 ;<br>CK pattern |                    |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S | on     | <b>gend</b><br>CP =<br>n 1) M = | Complete<br>Matrix        | Pattern                                       | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width                        | Overa  | all Width                       | Matrix                    | Length  | Matrix Width       |
| 0.015       | 0.140          | 0.020                             | 0      | .105                            | 0.                        | 24  | 0.18               |
|             |                |                                   |        | 2.67 6                          |                           |   | 4.6                |

| GAGI   | <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |              |                                  |  |  |  |
|--------|---|--------------|----------------------------------|--|--|--|
| Series | Description   | Strain Range | Temperature Range                |  |  |  |
| CEA    | Universal general-purpose strain gages.   | ±3%          | –100° to +350°F (–75° to +175°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| AGE PATTEF                 | RN DATA        |  | GA   |                                |                    |
|----------------------------|----------------|--|--|--------------------------------|--------------------|
|                            |                |  | DESIGN   | IATION (OHM                    | S) AVAILABLE       |
|                            |                |  | See No   | ote 1, 3 See No                | te 2 See Note 3    |
|                            |                |  | EA-XX-0310<br>WA-XX-037<br>EP-XX-0310<br>SA-XX-031 | ICE-350350 ± 0CE-350350 ± 0    | .4%<br>.2%         |
| e                          |                | •  | DESCRIP<br>General-p                               | TION<br>urpose high-resistance | miniature gage.    |
| GAGE DI                    | MENSIONS       | ES = Each Secti<br>S = Section (S <sup>-</sup> | Legend<br>on CP<br>= Section 1) M                  | = Complete Pattern<br>= Matrix | inch<br>millimeter |
| Gage Length Overall Length |                | Grid Width                                     | Overall Width                                      | Matrix Length                  | Matrix Width       |
| Gage Length                | Overall Length |  |  |                                |                    |
| Gage Length<br>0.031       | 0.076          | 0.062  | 0.062  | 0.23                           | 0.16               |

| GAG    | <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |              |                                  |  |  |  |  |
|--------|---|--------------|----------------------------------|--|--|--|--|
| Series | Description   | Strain Range | Temperature Range                |  |  |  |  |
| EA     | Constantan foil in combination with a tough, flexible, polyimide backing.       | ±3%          | –100° to +350°F (–75° to +175°C) |  |  |  |  |
| WA     | Fully encapsulated constantan gages with high-endurance leadwires.              | ±2%          | –100° to +400°F (–75° to +205°C) |  |  |  |  |
| EP     | Annealed constantan foil with tough, high-elongation polyimide backing.         | ±10%         | –100° to +400°F (–75° to +205°C) |  |  |  |  |
| SA     | Fully encapsulated constantan gages with solder dots.                           | ±2%          | –100° to +400°F (–75° to +205°C) |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



| AGE PATTER             | RN DATA  |                                      |                                   |   |   |
|------------------------|--|--------------------------------------|-----------------------------------|---|---|
|                        |  |                                      | GA<br>DESIGN                      |   |   |
|                        | Contraction of the local division of the loc |                                      | See No                            | ote 1, 3 See No   | ote 2 See Note 3  |
|                        |  | actual                               | -                                 | CF-350         350 ±           1CF-120         120 ±           1CF-350         350 ±           1CF-120         120 ±           CF-120         120 ±           CF-120         120 ±           CF-120         120 ±           CF-120         120 ±           CF-350         350 ± | 0.4% E, L*, LE*<br>0.4%<br>0.4%<br>0.2%<br>0.4%<br>0.4%<br>0.4% |
|                        | V  |                                      | DESCRIP                           | TION  |   |
|                        |  |                                      |                                   | urpose miniature gag<br>cept for resistance. Se   |   |
| GAGE DI                | MENSIONS   | ES = Each Section<br>S = Section (S1 | pattern ex                        |   |   |
| GAGE DI<br>Gage Length | MENSIONS<br>Overall Length   |                                      | pattern ex                        | cept for resistance. Se<br>= Complete Pattern   | e also 032UW patterr  |
|                        |  | S = Section (S1                      | Legend<br>on CP<br>= Section 1) M | eept for resistance. Se<br>= Complete Pattern<br>= Matrix   | e also 032UW pattern<br>inch<br>millimeter                      |

| GAG    | <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |              |                                   |  |  |  |  |
|--------|---|--------------|-----------------------------------|--|--|--|--|
| Series | Description   | Strain Range | Temperature Range                 |  |  |  |  |
| EA     | Constantan foil in combination with a tough, flexible, polyimide backing.       | ±3%          | -100° to +350°F (-75° to +175°C)  |  |  |  |  |
| ED     | Isoelastic foil in combination with tough, flexible polyimide film.             | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |  |
| WA     | Fully encapsulated constantan gages with high-endurance leadwires.              | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |  |
| WK     | Fully encapsulated K-alloy gages with high-endurance leadwires.                 | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |  |
| EP     | Annealed constantan foil with tough, high-elongation polyimide backing.         | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |  |
| SA     | Fully encapsulated constantan gages with solder dots.                           | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |  |
| SK     | Fully encapsulated K-alloy gages with solder dots.                              | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |  |
| SD     | Equivalent to WD Series, but with solder dots instead of leadwires.             | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| AGE PATTER  | RN DATA        |   |         |  |              |                    |                        |
|-------------|----------------|---|---------|--|--------------|--------------------|------------------------|
|             |                |   |         | GAG<br>DESIGN                                |              | RESISTAN<br>(OHMS) |                        |
|             |                |   |         | See Not                                      | te 1, 3      | See Note           | 2 See Note             |
| 19451       | The second     |   | EA      | A-XX-031D                                    | E-120        | 120 ± 0.29         | % E, <b>SE</b> , L, LE |
|             | 4              |   | E/      | A-XX-031D                                    | E-350        | $350 \pm 0.29$     | , - , ,                |
| 1000        |                |   | E       | D-DY-031D                                    | DE-350       | $350 \pm 0.49$     | % E, L*, LE*           |
| 0000000     |                |   | W       | A-XX-031                                     | DE-120       | $120 \pm 0.49$     | %                      |
|             |                |   | W       | A-XX-031                                     | DE-350       | $350 \pm 0.49$     | %                      |
| 1000        |                |   | W       | /K-XX-031[                                   | DE-350       | $350 \pm 0.49$     | %                      |
|             |                |   | EF      | P-XX-031D                                    | )E-120       | $120 \pm 0.29$     | %                      |
|             |                | -   | S       | A-XX-031E                                    | DE-350       | $350 \pm 0.49$     | %                      |
|             |                | B   | S       | A-XX-031E                                    | DE-350       | $350 \pm 0.49$     | %                      |
| -           |                |   | SI      | K-XX-031E                                    | DE-120       | $120 \pm 0.49$     | %                      |
|             |                | actual size   | SI      | K-XX-031E                                    | DE-350       | $350 \pm 0.49$     | %                      |
|             | Ļ              |   |         | DESCRIPT                                     |              |                    |                        |
| •           | •              |   | C       | General-pu                                   | irpose minia | ture gage.         |                        |
| GAGE DI     | MENSIONS       | L<br>ES = Each Section<br>S = Section (S1 = Section |         | Legend<br>CP = Complet<br>tion 1) M = Matrix |              | Pattern            | inch<br>millimeter     |
| Gage Length | Overall Length | Grid Width  | Overall | Width  | Matrix L     | Length             | Matrix Width           |
| 0.031       | 0.140          | 0.032   | 0.03    | 32   | 0.2          | 27                 | 0.12                   |
|             | 3.56           | 0.81  | 0.8     |  | 1            | 9                  |                        |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |

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| A . A . | DATTERN | DATA |
|---------|---------|------|
| GAGE    | PATTERN | DAIA |

|                         |  |                                      |   | GE<br>NATION  | RESISTANCE<br>(OHMS)                          | E OPTIONS                 |
|-------------------------|--|--------------------------------------|---|---|---|---------------------------|
|                         |  |                                      | See N   | ote 1, 3  | See Note 2                                    | See Note 3                |
|                         |  |                                      | EA-XX-031   | EC-120  | 120 ± 0.2%                                    | E, <b>SE,</b> L, LE       |
|                         | EMEM   |                                      | EA-XX-031   | EC-350  | 350 ± 0.2%                                    | E, <b>SE,</b> L, LE       |
|                         |  |                                      | ED-DY-031   | EC-350  | $350 \pm 0.4\%$                               | E, L*, LE*                |
|                         | The second s | The second second                    | WA-XX-03  | 1EC-120   | 120 ± 0.4%                                    |                           |
|                         | • •  |                                      | WA-XX-03  | 1EC-350   | $350 \pm 0.4\%$                               |                           |
|                         |  | -                                    | WK-XX-03  | 1EC-350   | $350 \pm 0.4\%$                               |                           |
|                         | RAMANANA CONTRACTOR  |                                      | EP-08-031   | EC-120  | 120 ± 0.2%                                    |                           |
|                         |  |                                      | SA-XX-03  | EC-120  | 120 ± 0.4%                                    |                           |
|                         |  |                                      | SA-XX-03  | EC-350  | $350 \pm 0.4\%$                               |                           |
|                         |  |                                      | SK-XX-03  |   | $120 \pm 0.4\%$                               |                           |
|                         |  |                                      | SK-XX-03  |   | $350 \pm 0.4\%$                               |                           |
|                         |  | •                                    | SD-DY-03  | LO-330  | 350 ± 0.8%                                    |                           |
| •                       | • •  | •                                    | •   |   |   |                           |
| •                       | • •  | •                                    | DESCRIF   | TION  |   |                           |
| •                       | actual size  |                                      | DESCRIF     General-p   | <b>PTION</b><br>purpose mini  | iature gage. Si<br>each side of gr            |                           |
| •<br>GAGE DI            | L  | ES = Each Section<br>S = Section (S1 | DESCRIF<br>General-p<br>pattern bu<br>DESCRIF<br>General-p<br>pattern bu  | <b>PTION</b><br>purpose mini  | iature gage. Si<br>each side of gr            |                           |
| GAGE DI     Gage Length | actual size  |                                      | DESCRIF<br>General-p<br>pattern bu<br>DESCRIF<br>General-p<br>pattern bu  | PTION<br>burpose mini<br>ut with tab at<br>= Complete<br>= Matrix           | iature gage. Si<br>each side of gr            | id.                       |
|                         | actual size  | S = Section (S1                      | DESCRIF<br>General-p<br>pattern but<br>DESCRIF<br>General-p<br>pattern but<br>DESCRIF<br>General-p<br>P<br>General-p<br>Section 1) M | TION<br>ourpose mini-<br>ut with tab at<br>= Complete<br>= Matrix<br>Matrix | iature gage. Si<br>each side of gr<br>Pattern | id.<br>inch<br>millimeter |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |

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Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



|                         | RN DATA                    |                                      |                                   | GAGE  | RESISTANCE               |                    |
|-------------------------|----------------------------|--------------------------------------|-----------------------------------|---|--------------------------|--------------------|
| •                       |                            |                                      |                                   | DESIGNATION   | (OHMS)                   | AVAILABL           |
|                         |                            |                                      |                                   | See Note 1  |                          | See Note :         |
|                         |                            | actual size                          |                                   | CEA-XX-032UW-120<br>CEA-XX-032UW-350                          | 120 ± 0.3%<br>350 ± 0.3% | P2<br>P2           |
|                         |                            |                                      |                                   | DESCRIPTION<br>General-purpose mini<br>area is 0.07 x 0.04 in |                          | osed solder ta     |
|                         |                            |                                      |                                   |   | [1.6 X 1.6 mm].          |                    |
| GAGE DI                 | MENSIONS                   | ES = Each Section<br>S = Section (S1 | on -                              | gend<br>CP = Complete   |                          | inch<br>millimeter |
| GAGE DII<br>Gage Length | MENSIONS<br>Overall Length |                                      | on<br>= Section                   | gend<br>CP = Complete<br>1) M = Matrix                        | Pattern                  | _                  |
|                         |                            | S = Section (S1                      | on<br>= Section<br><b>Overa</b> l | gend<br>CP = Complete<br>1) M = Matrix<br>Il Width Matrix     | Pattern                  | millimeter         |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                  |  |  |
|---|---|--------------|----------------------------------|--|--|
| Series  | Description                             | Strain Range | Temperature Range                |  |  |
| CEA   | Universal general-purpose strain gages. | ±3%          | –100° to +350°F (–75° to +175°C) |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



|                        |             |  | GA<br>DESIGI   |  | RESISTANCE<br>(OHMS)   | OPTIONS<br>AVAILABLE   |
|------------------------|-------------|--|--|--|--|--|
|                        |             | -                                      | See No   | ote 1, 3   | See Note 2   | See Note 3   |
| -                      |             |  | EA-XX-060<br>EA-XX-060<br>WA-XX-060<br>WK-XX-060<br>WK-XX-060<br>SA-XX-060<br>SK-XX-060<br>SK-XX-060 | PB-350<br>DPB-120<br>DPB-350<br>DPB-350<br>DPB-500<br>PB-120<br>PB-350<br>PB-350 | $120 \pm 0.2\% \\ 350 \pm 0.2\% \\ 120 \pm 0.3\% \\ 350 \pm 0.3\% \\ 350 \pm 0.3\% \\ 500 \pm 0.3\% \\ 120 \pm 0.3\% \\ 350 \pm 0.3\% \\ 350 \pm 0.3\% \\ 350 \pm 0.3\% \\ 500 \pm 0.3\% \\ 500$ | W, E, L, LE<br>W, E, L, LE<br>W*<br>W*<br><b>W</b> *<br><b>W</b> *<br><b>W</b> * |
| L                      |             | L                                      |  |  |  |  |
| L                      | 1           | L                                      | DESCRIP  | TION   |  |  |
| L                      | actual size | L                                      | Dual patt  | ern for bad<br>nal grid cent   |  | •  |
| GAGE DI                |             | ES = Each Section<br>S = Section (S1 = | Dual patt<br>Longitudir<br>mm) apart<br>Legend<br>CP   | ern for bad<br>nal grid cent   | erlines spaced   | nding sections.<br>0.085 in (2.16<br>inch<br>millimeter                          |
| GAGE DI<br>Gage Length | actual size |  | Dual patt<br>Longitudir<br>mm) apart<br>Legend<br>CP   | ern for bao<br>nal grid cent<br>-<br>= Complete                                  | terlines spaced  | 0.085 in (2.16   |
|                        | actual size | S = Section (S1 =                      | Dual patt<br>Longitudir<br>mm) apart<br><b>Legend</b><br>CP<br>Section 1) M                          | ern for bad<br>hal grid cent<br>= Complete<br>= Matrix                           | terlines spaced Pattern Length   | 0.085 in (2.16   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTER | RN DATA        |  |               |  |  |                      |
|-------------|----------------|--|---------------|--|--|----------------------|
| •           |                |  | DE            | GAGE<br>SIGNATION  | RESISTANCE<br>(OHMS)                     | OPTIONS<br>AVAILABLE |
| =           | MEME           |  | 5             | See Note 1   | See Note 2                               | See Note 3           |
|             |                | actual size                                    | ED-DY         | -062AK-120<br>-062AK-350<br>-062AK-120                           | 120 ± 0.15%<br>350 ± 0.4%<br>120 ± 0.15% | E                    |
|             |                |  | Gene<br>See t | CRIPTION<br>ral-purpose gag<br>he 062AP patter<br>his grid size. |  |                      |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S <sup>-</sup> |               | CP = Complete<br>M = Matrix                                      | Pattern                                  | inch<br>millimeter   |
| Gage Length | Overall Length | Grid Width                                     | Overall Widt  | h Matrix   | Length                                   | Matrix Width         |
| 0.062       | 0.160          | 0.062  | 0.062         | 0.   | 27                                       | 0.14                 |
| 1.57        | 4.06           | 1.57   | 1.57          | 6  | .9                                       | 3.6                  |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |      |                                   |  |  |  |
|---|---|------|-----------------------------------|--|--|--|
| Series  | Description Strain Range Temperature Range                                |      |                                   |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%  | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%  | –320° to +400°F (–195° to +205°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10% | –100° to +400°F (–75° to +205°C)  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



| GAGE PATTER | N DATA         |                                      |                                     |  |  |
|-------------|----------------|--------------------------------------|-------------------------------------|--|--|
|             |                | •                                    | GA<br>DESIGN                        |  |  |
|             |                |                                      | See No                              | ote 1, 3 See Not   | te 2 See Note 3  |
|             |                | actual size                          | DESCRIP<br>Widely use<br>pattern. E | AP-350       350 ± 0         AP-350       350 ± 0         2AP-120       120 ± 0         2AP-350       350 ± 0         AP-350       350 ± 0         AP-120       120 ± 0         AP-350       350 ± 0 | .4% E, L*, LE*<br>.15% W, SE<br>.3% W*<br>.3% W*<br>.3% W*<br>.3%<br>.8%<br>.8%<br>.8%<br>.8%<br>.8% |
| GAGE DIN    | IENSIONS       | ES = Each Section<br>S = Section (S1 |                                     | = Complete Pattern<br>= Matrix   | inch<br>millimeter   |
| Gage Length | Overall Length | Grid Width                           | Overall Width                       | Matrix Length  | Matrix Width   |
| 0.062       | 0.114          | 0.062                                | 0.062                               | 0.26   | 0.16   |
| 1.57        | 2.90           | 1.57                                 | 1.57                                | 6.6  | 4.1  |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| EK  | K-alloy foil in combination with a tough, flexible polyimide backing.     | ±1.5%        | –320° to +350°F (–195° to +175°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| •                      | and the second             | •                                      | GA(<br>DESIGN  |  | RESISTANCE<br>(OHMS)  | OPTIONS<br>AVAILABLE                             |
|------------------------|----------------------------|--|--|--|---|--|
|                        |                            |  | See No   | te 1, 3  | See Note 2  | See Note 3                                       |
|                        |                            | actual size                            | EA-XX-062/<br>ED-DY-062/<br>WA-XX-062<br>WK-XX-062<br>EP-08-062/<br>SA-XX-062<br>SK-XX-062<br>SD-DY-062<br>WD-DY-062 | AQ-500<br>AQ-500<br>AQ-500<br>AQ-350<br>AQ-350<br>AQ-350<br>AQ-500<br>AQ-500 | $\begin{array}{c} 350 \pm 0.15\% \\ 500 \pm 0.4\% \\ 350 \pm 0.3\% \\ 500 \pm 0.3\% \\ 350 \pm 0.15\% \\ 350 \pm 0.3\% \\ 500 \pm 0.3\% \\ 500 \pm 0.3\% \\ 500 \pm 0.8\% \\ 500 \pm 0.8\% \end{array}$ | W, E, L, LE, P<br>E, L*, LE*<br>W*<br><b>W</b> * |
|                        |                            | •                                      |  | urpose gage  | . Similar to 062/<br>id. See also 062/  | •  |
| GAGE DI                | MENSIONS                   | ES = Each Section<br>S = Section (S1 : | General-pu<br>with high-r<br>Legend  | urpose gage  | id. See also 062  | •  |
| GAGE DI<br>Gage Length | MENSIONS<br>Overall Length |  | General-pu<br>with high-r<br>Legend  | esistance gr   | id. See also 062  | UW pattern.                                      |
|                        |                            | S = Section (S1 :                      | General-pu<br>with high-r<br><b>Legend</b><br>n CP<br>= Section 1) M   | urpose gage<br>esistance gr<br>= Complete I<br>= Matrix                      | id. See also 0621 Pattern   | UW pattern.<br>inch<br>millimeter                |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTER | RN DATA        |  |   |   |  |
|-------------|----------------|--|---|---|--|
| •           |                |  | GA<br>DESIGN  |   |  |
|             |                |  | See No  | ote 1, 3 See No   | te 2 See Note 3  |
|             |                | E<br>actual size                               | EA-XX-062<br>ED-DY-062<br>WA-XX-062<br>WK-XX-062<br>SA-XX-062<br>SK-XX-062<br>SD-DY-062<br>WD-DY-062<br>DESCRIP<br>Similar to | DN-500         500 ± 0           2DN-350         350 ± 0           2DN-500         500 ± 0           DN-350         350 ± 0           DN-350         350 ± 0           DN-350         350 ± 0           DN-500         500 ± 0           DN-500         500 ± 0           DN-500         500 ± 0           DN-500         500 ± 0 | 0.4% E, L*, LE*<br>0.3%<br>0.3%<br>0.15%<br>0.3%<br>0.8%<br>0.8% |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S <sup>1</sup> |   | = Complete Pattern<br>= Matrix  | inch<br>millimeter   |
| Gage Length | Overall Length | Grid Width                                     | Overall Width   | Matrix Length   | Matrix Width   |
|             |                |  |   | 0.34  |  |
| 0.062       | 0.190          | 0.062  | 0.062   | 0.34  | 0.18   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTER | RN DATA        |                                    |   |   |  |   |
|-------------|----------------|------------------------------------|---|---|--|---|
|             |                |                                    | DES   | GAGE<br>SIGNATION   | RESISTANC<br>(OHMS)  | E OPTIONS<br>AVAILABLE                      |
| •           |                |                                    | See   | e Note 1, 3   | See Note 2   | 2 See Note 3                                |
| -           |                |                                    | ED-DY-<br>WA-XX<br>WK-XX<br>EP-08-(<br>SA-XX-<br>SK-XX-<br>SD-DY- | 062ED-120<br>062ED-350<br>-062ED-350<br>062ED-120<br>062ED-350<br>062ED-350<br>062ED-350<br>062ED-350 | $120 \pm 0.15$<br>$350 \pm 0.49$<br>$120 \pm 0.39$<br>$350 \pm 0.39$<br>$120 \pm 0.15$<br>$120 \pm 0.39$<br>$350 \pm 0.39$<br>$350 \pm 0.89$<br>$350 \pm 0.89$ | 6 E, L*, LE**<br>6<br>6<br>9<br>6<br>6<br>6 |
|             | actual size    |                                    | Gener   | RIPTION<br>al-purpose gaç<br>t for grid resista   |  | 062EN pattern                               |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S1 |   | CP = Complete<br>M = Matrix   | Pattern  | inch<br>millimeter                          |
| Gage Length | Overall Length | Grid Width                         | Overall Width   | Matrix  | Length   | Matrix Width                                |
| 0.062       | 0.076          | 0.062                              | 0.190   | 0.  | 21   | 0.29  |
| 1.57        | 1.93           | 1.57                               | 4.83  | 5   | .3   | 7.4   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

\*Options available but not normally recommended. See Optional Features data sheet for details.

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|                              | RN DATA          |                                   |  |  |  |
|------------------------------|------------------|-----------------------------------|--|--|--|
|                              |                  |                                   | GA<br>DESIGN   |  |  |
|                              |                  |                                   | See No   | te 1, 3 See No   | ote 2 See Note 3   |
| -                            |                  |                                   | EA-XX-0621<br>ED-DY-0622<br>WA-XX-062<br>WK-XX-062<br>EP-08-0625<br>SA-XX-062<br>SK-XX-062<br>SD-DY-062<br>WD-DY-062 | EN-500         500 ±           2EN-350         350 ±           EN-500         500 ±           EN-350         350 ±           EN-500         500 ±           EN-500         500 ± | 0.4% E, L*, LE*<br>0.3%<br>0.3%<br>0.15%<br>0.3%<br>0.3%<br>0.3%<br>0.3% |
| •                            |                  |                                   |  |  |  |
| •                            | actual size      |                                   | • DESCRIP<br>Similar to  | TION<br>D62ED pattern except   | for grid resistance.   |
| •<br>GAGE DI                 | ا <u>ـــــ</u> ا | ES = Each Secti<br>S = Section (S | Similar to Similar to Legend   |  | for grid resistance.   |
| •<br>GAGE DII<br>Gage Length | actual size      |                                   | Similar to Similar to Legend   | 062ED pattern except   | inch   |
|                              | actual size      | S = Section (S                    | Similar to<br>Legend<br>on CP<br>1 = Section 1) M  | D62ED pattern except<br>= Complete Pattern<br>= Matrix   | inch<br>millimeter   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±3%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±10%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

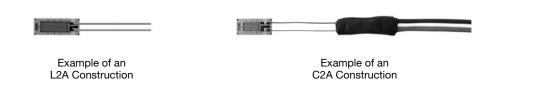
Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAG                         | E PATTER                                |                |  |               |                                |                  |   |
|-----------------------------|---|----------------|--|---------------|--------------------------------|------------------|---|
|                             | -                                       | -              |  | [             | GAGE<br>DESIGNATION            | RESISTA<br>(OHM: |   |
|                             | E                                       | MEME           |  |               | See Note 1                     |                  |   |
|                             | -                                       |                |  |               | -XX-062LW-120                  |                  |   |
|                             | 100000000000000000000000000000000000000 |                |  |               | -XX-062LW-350                  |                  |   |
|                             |   |                |  | -             | -XX-062LW-120<br>-XX-062LW-350 | -                |   |
|                             | -                                       |                | actual size                              | •             |                                |                  |   |
|                             |   |                |  |               | SCRIPTION<br>dely used gener   | al-purpose gag   | Je. RoHS<br>COMPLIANT                                       |
|                             | GAGE DIN                                | IENSIONS       | ES = Each Secti<br>S = Section (S        | on            | CP = Comp<br>M = Matrix        |                  | millimeter  |
| Gage Length Overall Length  |   | Grid Width     | Overall W                                | idth Ma       | trix Length                    | Matrix Width     |   |
| 0.062 0.175                 |   | 0.050          | 0.080                                    |               | 0.252                          | 0.170            |   |
|                             | 1.52                                    | 4.45           | 1.27                                     | 2.03          |                                | 6.40             | 4.32  |
|                             |   |                | o Sorioo dataabaa                        | t for complet | e specificatio                 | ons              |   |
|                             | E SERIES                                | DATA — See Gag |  |               | 1                              |                  |   |
| Series                      |   | Desci          | ription                                  |               | Strain Range                   | -                | erature Range   |
| GAG<br>Series<br>L2A<br>C2A | Encapsulated                            |                | <b>ription</b><br>n preattached ribbon I | eads.         | 1                              | -100° to +25     | erature Range<br>0°F (–75° to +120°C)<br>°F (–50° to +80°C) |



Note 1: Insert desired S-T-C number in spaces marked XX.



| GAGE PATTER | N DATA         |   |    |                                       |                      |                        |                    |
|-------------|----------------|---|----|---------------------------------------|----------------------|------------------------|--------------------|
|             |                |   |    | GAO<br>DESIGN                         |                      | RESISTAN<br>(OHMS)     |                    |
| The second  |                |   |    | See No                                | ote 1                |                        | See Note 2         |
|             |                | actual siz  | e  | CEA-XX-062<br>CEA-XX-062              | UW-350               | 120 ± 0.3<br>350 ± 0.3 |                    |
| 6           | V              | 4   |    | DESCRIPT<br>General-pu<br>0.07 x 0.04 | rpose gag            |                        | solder tab area is |
| GAGE DIM    | MENSIONS       | ES = Each Section<br>S = Section (S1  | on | e <b>gend</b><br>CP =<br>n 1) M =     | - Complete<br>Matrix | Pattern                | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width  |    | all Width                             |                      | Length                 | Matrix Width       |
| 0.062       | 0.220          | 0.120   | C  | ).120                                 | 0.                   | .31                    | 0.19               |
| 1.57        | 5.59           | 0.120         0.120         0.31         0.19           3.05         3.05         7.9         4.8 |    |                                       |                      | 4.0                    |                    |

| GAGI   | <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |              |                                  |  |  |  |  |
|--------|---|--------------|----------------------------------|--|--|--|--|
| Series | Description   | Strain Range | Temperature Range                |  |  |  |  |
| CEA    | Universal general-purpose strain gages.   | ±3%          | -100° to +350°F (-75° to +175°C) |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| AGE PATTER           | RN DATA        |                                    |   |  |  |
|----------------------|----------------|------------------------------------|---|--|--|
| •                    |                |                                    | GAC<br>DESIGN   |  |  |
|                      | EMEME          |                                    | See Not   | te 1, 3 See No   | te 2 See Note 3  |
|                      |                | actual size                        | resistance<br>patterns. E<br>copper pau<br>not specifie | AC-10C       1000 ± 0         AC-10C       1000 ± 0         5AC-10C       1000 ± 0         AC-350       350 ± 0         AC-10C       1000 ± 0         C-350       350 ± 0         AC-350       350 ± 0         AC-350       350 ± 0         AC-350       350 ± 0         AC-350       350 ± 0         AC-10C       1000 ± 0         AC-10C | 0.3%     E, L*, L, L*       0.3%     W, SE       0.3%     W*       0.3%     W*       0.3%     W*       0.3%     0.15%       0.3%     0.6%       0.6%     0.6%       0.6%     0.6%       0.25UN, and 125UV       supplied with duple: |
| GAGE DI              | MENSIONS       | ES = Each Secti<br>S = Section (S1 |   | = Complete Pattern<br>= Matrix   | inch<br>millimeter   |
|                      | Overall Length | Grid Width                         | Overall Width   | Matrix Length  | Matrix Width   |
| Gage Length          | Overall Lengui |                                    |   |  |  |
| Gage Length<br>0.125 | 0.250          | 0.125                              | 0.125   | 0.40   | 0.22   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| EK  | K-alloy foil in combination with a tough, flexible polyimide backing.     | ±1.5%        | –320° to +350°F (–195° to +175°C) |  |  |  |
| S2K   | K-alloy foil with laminated thick, high-performance polyimide backing.    | ±1.5%        | –100° to +250°F (–75° to +120°C)  |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTER | GAGE PATTERN DATA                      |             |  |   |   |  |
|-------------|--|-------------|--|---|---|--|
| •           |  |             | DESIG  | AGE RESISTA   | IS) AVAILABLE   |  |
|             |  | actual size | See No<br>EA-XX-125<br>ED-DY-125<br>EK-XX-125<br>WA-XX-12<br>WK-XX-125<br>SA-XX-125<br>SA-XX-125<br>SA-XX-125<br>SA-XX-125<br>SD-DY-125<br>WD-DY-125 | AD-350 $350 \pm 0$ AD-350 $350 \pm 0$ <b>5AD-120</b> $120 \pm 0$ <b>5AD-350</b> $350 \pm 0$ AD-120 $120 \pm 0$ <b>5AD-120</b> $120 \pm 0$ <b>5AD-350</b> $350 \pm 0$ <b>5AD-350</b> $350 \pm 0$ | 0.15%         W, E, L, LE, P           0.3%         E, L*, LE*           0.15%         W, SE           0.3%         W*           0.3%         W*           0.15%         0.3%           0.3%         0.3% |  |
|             |  |             | are supp   | PTION<br>ed general-purpose ga<br>lied with duplex copp<br>eature W or SE is not sp   | per pads (DP) when  |  |
| GAGE DI     | GAGE DIMENSIONS ES = Each<br>S = Secti |             |  | = Complete Pattern<br>= Matrix  | inch<br>millimeter  |  |
| Gage Length | Overall Length                         | Grid Width  | Overall Width  | Matrix Length   | Matrix Width  |  |
| 0.125       | 0.250                                  | 0.125       | 0.125  | 0.40  | 0.22  |  |
| 3.18        | 6.35                                   | 3.18        | 3.18   | 10.2  | 5.6   |  |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| EK  | K-alloy foil in combination with a tough, flexible polyimide backing.     | ±1.5%        | –320° to +350°F (–195° to +175°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| AGE PATTER           | RN DATA                 |                                    |    |   |                    |   |                      |
|----------------------|-------------------------|------------------------------------|----|---|--------------------|---|----------------------|
| •                    |                         |                                    |    | GAG<br>DESIGN   |                    | RESISTANCE<br>(OHMS)  | OPTIONS<br>AVAILABLE |
|                      | MEME                    |                                    |    | See Not   | e 1, 3             | See Note 2  | See Note 3           |
|                      |                         | actual size                        |    | EA-XX-125BB-120<br>ED-DY-125BB-350<br>WA-XX-125BB-350<br>EP-08-125BB-120<br>SA-XX-125BB-120<br>SA-XX-125BB-120<br>SK-XX-125BB-120<br>SK-XX-125BB-350<br>WD-DY-125BB-350 |                    | $120 \pm 0.159$<br>$350 \pm 0.3\%$<br>$120 \pm 0.3\%$<br>$350 \pm 0.3\%$<br>$120 \pm 0.159$<br>$120 \pm 0.3\%$<br>$350 \pm 0.3\%$<br>$350 \pm 0.6\%$<br>$350 \pm 0.6\%$ | E                    |
| •                    | ▼.                      |                                    |    | DESCRIPT<br>Narrow ger  |                    | se gage with ex   | tended tabs.         |
| GAGE DI              | MENSIONS                | ES = Each Secti<br>S = Section (S1 | on |   | Complete<br>Matrix | Pattern   | inch<br>millimeter   |
|                      |                         |                                    |    |   | Matuin             |   |                      |
| Gage Length          | Overall Length          | Grid Width                         |    | all Width   | Matrix             | Length  | Matrix Width         |
| Gage Length<br>0.125 | Overall Length<br>0.245 | Grid Width<br>0.088                |    | all Width<br>).088  | 0.4                | -   | 0.22                 |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



| AGE PATTER                   | RN DATA                         |                                   |                                     |   |  |
|------------------------------|---------------------------------|-----------------------------------|-------------------------------------|---|--|
| •                            | •                               |                                   | GA<br>DESIGN                        |   |  |
|                              |                                 |                                   | See No                              | ote 1, 3 See N  | ote 2 See Note 3                         |
|                              |                                 | actual size                       |                                     | BT-350 350 ±<br>5BT-120 120 ±<br>3BT-350 350 ±<br>3T-120 120 ±<br>3BT-120 120 ±<br>3BT-120 120 ±<br>3BT-350 350 ±<br>3BT-350 350 ±<br>3BT-350 350 ± | 0.3% W*<br>0.15%<br>0.3%<br>0.6%<br>0.6% |
| c                            | •                               |                                   | geometry.                           | See also 125BZ patte  |  |
| e<br>GAGE DI                 | •<br>MENSIONS                   | ES = Each Secti<br>S = Section (S | Legend<br>On CP                     | See also 125BZ patte<br>= Complete Pattern<br>= Matrix  |  |
| e<br>GAGE DII<br>Gage Length | •<br>MENSIONS<br>Overall Length |                                   | Legend<br>On CP                     | = Complete Pattern  | ern.                                     |
|                              |                                 | S = Section (S                    | Legend<br>on CP<br>I = Section 1) M | = Complete Pattern<br>= Matrix  | inch<br>millimeter                       |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE | PATTERN | DATA |
|------|---------|------|
| anal |         | PAIA |

| GAGE PATTER                       | GAGE PATTERN DATA |             |          |   |  |  |  |
|-----------------------------------|-------------------|-------------|----------|---|--|--|--|
| •                                 |                   |             |          | GAC<br>DESIGN<br>See No<br>EA-XX-125E<br>ED-DY-125E   | <b>ATION</b><br>te 1, 3<br>8Z-350                        | <b>RESISTAI</b><br>(OHMS<br>See Note<br>350 ± 0.<br>1000 ± 0.  | AVAILABLE           e 2         See Note 3           15%         W, E, L, LE, P      |
| ~ ~ /                             |                   | actual size |          | EK-XX-125E<br>WA-XX-125<br>WK-XX-125<br>SA-XX-125I<br>SK-XX-125I<br>SD-DY-125I<br>WD-DY-125 | BZ-10C<br>BZ-350<br>BZ-10C<br>BZ-350<br>BZ-10C<br>BZ-10C | $\begin{array}{c} 1000 \pm 0,\\ 350 \pm 0,\\ 1000 \pm 0,\\ 350 \pm 0,\\ 1000 \pm 0,\\ 1000 \pm 0,\\ 1000 \pm 0,\\ \end{array}$ | 15% W*<br>3% W*<br>3%<br>3%<br>3%<br>8%  |
| •                                 | <b>,</b> .        |             |          | Similar to<br>EK-Series   | h-resistance<br>125BT patt<br>gages are                  | ern except<br>supplied v   | compact geometry.<br>for grid resistance.<br>with duplex copper<br>is not specified. |
| GAGE DIMENSIONS ES = Ea<br>S = Se |                   |             |          |   | = Complete<br>= Matrix                                   | Pattern  | inch<br>millimeter   |
| Gage Length                       | Overall Length    | Grid Width  | Over     | all Width   | Matrix   | Length   | Matrix Width   |
| 0.125                             | 0.220             | 0.062       | (        | 0.062   | 0.:  | 29   | 0.13   |
| 3.18                              | 5.59              | 1.57        | 1.57 7.4 |   | 7.   | 4  | 3.3  |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| EK  | K-alloy foil in combination with a tough, flexible polyimide backing.     | ±1.5%        | –320° to +350°F (–195° to +175°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | -320° to +400°F (-195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| AGE PATTER  | RN DATA        |             |   |   |              |
|---|----------------|-------------|---|---|--------------|
|   | M=M=           |             | DESIG   | GE RESIST   |              |
|   |                | actual size | See N<br>L2A-XX-12<br>L2A-XX-12<br>C2A-XX-12<br>C2A-XX-12 | 5LW-120         120 ±           5LW-350         350 ±           5LW-120         120 ± | 0.6%<br>0.6% |
|   |                |             | <b>DESCRIP</b><br>Widely us                               | <b>TION</b><br>ed general-purpose ga  | age. RoHS    |
| GAGE DIMENSIONS       ES = Each Section       CP = Complete Pattern         S = Section (S1 = Section 1)       M = Matrix       m |                |             |   | inch<br>millimeter  |              |
| Gage Length   | Overall Length | Grid Width  | Overall Width   | Matrix Length   | Matrix Width |
| 0.125   | 0.238          | 0.070       | 0.080   | 0.315   | 0.170        |
| 3.18  | 6.05           | 1.78        | 2.03  | 8.00  | 4.32         |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |                       |                                  |  |  |  |
|---|---|-----------------------|----------------------------------|--|--|--|
| Series  | Description   | Strain Range          | Temperature Range                |  |  |  |
| L2A   | Encapsulated constantan gages with preattached ribbon leads.        | ±3%                   | –100° to +250°F (–75° to +120°C) |  |  |  |
| C2A   | Encapsulated constantan gages with preattached ready-to-use cables. | ±3%                   | –60° to +180°F (–50° to +80°C)   |  |  |  |
|   | Example of an<br>L2A Construction                                   | Example<br>C2A Constr |                                  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| GAGE PATTERN DATA   |                |                                      |          |  |   |  |   |
|---|----------------|--------------------------------------|----------|--|---|--|---|
| <b>-</b>  |                |                                      |          | GAC<br>DESIGN  |   | RESISTAN<br>(OHMS  |   |
|   |                |                                      |          | See Not  | e 1, 3  | See Note   | e 2 See Note 3  |
|   |                |                                      | Jal size | EA-XX-125P<br>EA-XX-125P<br>ED-DY-125F<br>ED-DY-125F<br>EK-XX-125P<br>WA-XX-125F<br>WK-XX-125I<br>SA-XX-125F<br>SA-XX-125F<br>SK-XX-125F | C-350<br>PC-350<br>PC-10C<br>PC-10C<br>PC-120<br>PC-350<br>PC-350<br>PC-10C<br>PC-120<br>PC-350<br>PC-350<br>PC-350<br>PC-350 | $120 \pm 0.1$ $350 \pm 0.1$ $350 \pm 0.1$ $1000 \pm 0.1$ $1000 \pm 0.1$ $120 \pm 0.1$ $350 \pm 0.1$ $350 \pm 0.1$ $120 \pm 0.1$ $120 \pm 0.1$ $350 \pm 0.1$ $350 \pm 0.1$ $350 \pm 0.1$ $120 \pm 0.1$ $350 \pm 0.1$ $1000 \pm 0.1$ | 2%     W, E, L, LE       4%     E       4%     E       2%     W, SE       4%     W*       4%     W*       4%     W*       4%     W*       4%     W*       4%     W* |
| DESCRIPTION<br>Dual-pattern gage for use in back-to-back bending<br>applications. Longitudinal grid centerlines space<br>0.085 in [2.16 mm] apart. See also 125MG pattern<br>EK-Series gages are supplied with duplex copper<br>pads (DP) when optional W or SE is not specified. |                |                                      |          |  |   | centerlines spaced<br>lso 125MG pattern.<br>vith duplex copper   |   |
| GAGE DIN  | IENSIONS       | ES = Each Section<br>S = Section (S1 | on       |  | = Complete<br>= Matrix  | Pattern  | inch<br>millimeter  |
| Gage Length   | Overall Length | Grid Width                           | Over     | all Width  | Matrix  | Length   | Matrix Width  |
| 0.125 ES  | 0.205 CP       | 0.065 ES                             | 0.1      | 150 CP   | 0.:   | 29   | 0.23  |
| 3.18 ES   | 5.21 CP        | 1.65 ES                              | 3.       | 81 CP  | 7.  | 4  | 5.8   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| EK  | K-alloy foil in combination with a tough, flexible polyimide backing.     | ±1.5%        | –320° to +350°F (–195° to +175°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTERN DATA |                |                                      |                                   |                             |                     |                        |
|-------------------|----------------|--------------------------------------|-----------------------------------|-----------------------------|---------------------|------------------------|
|                   |                |                                      | DES                               | GAGE<br>SIGNATION           | RESISTANC<br>(OHMS) | E OPTIONS<br>AVAILABLE |
|                   | A              |                                      | S                                 | ee Note 1                   |                     | See Note 2             |
|                   |                | actual size                          | CEA-XX<br>DESC<br>Gener<br>solder |                             |                     |                        |
| GAGE DIMEN        | ISIONS         | ES = Each Section<br>S = Section (S1 |                                   | CP = Complete<br>M = Matrix | Pattern             | inch<br>millimeter     |
| Cogo Longth       | Overall Length | Grid Width                           | Overall Width                     | h Matrix                    | Length              | Matrix Width           |
| Gage Length       |                |                                      |                                   |                             |                     |                        |
| 0.125             | 0.275          | 0.100                                | 0.120                             | 0                           | .38                 | 0.19                   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |     |                                  |  |  |
|---|---|-----|----------------------------------|--|--|
| Series  | es Description Strain Range Temperature Range |     |                                  |  |  |
| CEA   | Universal general-purpose strain gages.       | ±5% | -100° to +350°F (-75° to +175°C) |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| AGE PATTER              | RN DATA                    |                                      |                               |   |  |                                  |                                  |
|-------------------------|----------------------------|--------------------------------------|-------------------------------|---|--|----------------------------------|----------------------------------|
| ~                       |                            | ~                                    |                               | GAGI<br>DESIGNA   |  | RESISTANCI<br>(OHMS)             | E OPTIONS<br>AVAILABLE           |
|                         |                            |                                      |                               | See Not   | te 1   |                                  | See Note 2                       |
| A ctual size            |                            |                                      | size                          | CEA-XX-125L<br>CEA-XX-125L                                |  | 120 ± 0.3%<br>350 ± 0.3%         | 1                                |
|                         |                            |                                      |                               |   |  |                                  |                                  |
|                         |                            |                                      |                               |   | pose gag   | le. Exposed s<br>mm). See also 1 | solder tab area<br>25UN pattern. |
| GAGE DI                 |                            | ES = Each Section<br>S = Section (S1 | on                            | General-pur<br>0.10 x 0.07 (<br>egend<br>CP =             | pose gag   | mm). See also 1                  |                                  |
| GAGE DII<br>Gage Length | MENSIONS<br>Overall Length |                                      | on<br>= Sectio                | General-pur<br>0.10 x 0.07 (<br>egend<br>CP =             | pose gag<br>(2.5 x 1.8 r<br>Complete<br>Matrix           | mm). See also 1                  | 25UN pattern.                    |
|                         | 1                          | S = Section (S1                      | on<br>= Sectio<br><b>Over</b> | General-pur<br>0.10 x 0.07 (<br>egend<br>CP =<br>m 1) M = | pose gag<br>(2.5 x 1.8 r<br>Complete<br>Matrix<br>Matrix | nm). See also 1<br>Pattern       | 25UN pattern.                    |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |     |                                  |  |  |  |
|---|---|-----|----------------------------------|--|--|--|
| Series  | es Description Strain Range Temperature Range |     |                                  |  |  |  |
| CEA   | Universal general-purpose strain gages.       | ±5% | –100° to +350°F (–75° to +175°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

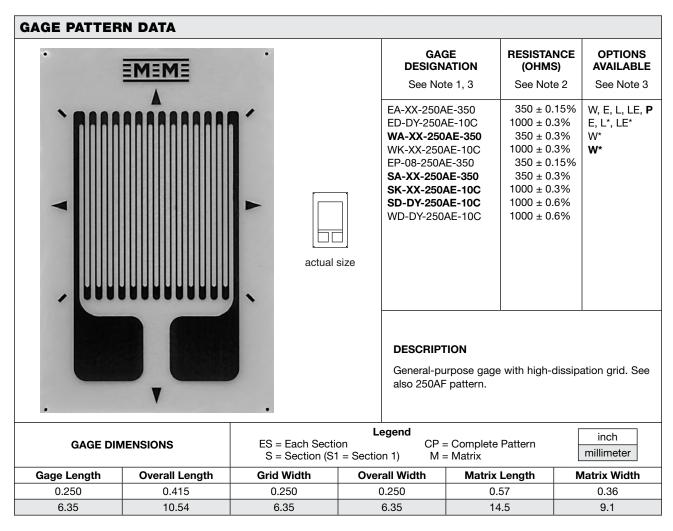


| GAGE PATTER | N DATA         |                                    |                       |                                |                    |
|-------------|----------------|------------------------------------|-----------------------|--------------------------------|--------------------|
|             |                |                                    | GA(<br>DESIGN         |                                |                    |
| N           |                |                                    | See N                 | ote 1                          | See Note 2         |
|             |                | actual size                        | DESCRIP<br>General-pu | 7UW-350 350 ± 0                | .3% <b>P2</b>      |
|             |                |                                    |                       |                                |                    |
| GAGE DIN    | IENSIONS       | ES = Each Secti<br>S = Section (S1 |                       | = Complete Pattern<br>= Matrix | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width                         | Overall Width         | Matrix Length                  | Matrix Width       |
| 0.187       | 0.387          | 0.180                              | 0.180                 | 0.49                           | 0.27               |
| 4.75        | 9.83           | 4.57                               | 4.57                  | 12.4                           | 6.9                |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |  |     |                                  |  |  |  |
|---|--|-----|----------------------------------|--|--|--|
| Series  | Description Strain Range Temperature Range |     |                                  |  |  |  |
| CEA   | Universal general-purpose strain gages.    | ±5% | -100° to +350°F (-75° to +175°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.





| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTERN DATA |                |                                      |   |  |  |  |  |
|-------------------|----------------|--------------------------------------|---|--|--|--|--|
| •                 |                |                                      | GA0<br>DESIGN                           |  |  |  |  |
|                   | <u>EMEME</u>   |                                      | See No                                  | te 1, 3 See No   | te 2 See Note 3  |  |  |
|                   |                | actual size                          | Compact of<br>for resistar<br>EK-Series | 3F-10C       1000 ± 0         3F-10C       1000 ± 0         0BF-10C       1000 ± 0         BF-350       350 ± 0         BF-10C       1000 ± 0         BF-10C       1000 ± 0         BF-10C       1000 ± 0         BF-10C       1000 ± 0 | .3%       E, L*, LE*         0.15%       W, SE         0.3%       W*         0.3%       0.3%         0.15%       0.3%         0.3%       0.15%         0.3%       0.6%         0.6%       0.6%         0.6%       0.6%         0.6%       0.6%         0.6%       0.6%         0.6%       0.6%         0.6%       0.6%         0.6%       0.6%         0.6%       0.6%         0.6%       0.6% |  |  |
| GAGE DIN          | IENSIONS       | ES = Each Section<br>S = Section (S1 |   | = Complete Pattern<br>= Matrix   | inch<br>millimeter   |  |  |
| Gage Length       | Overall Length | Grid Width                           | Overall Width                           | Matrix Length  | Matrix Width   |  |  |
| 0.250             | 0.375          | 0.125                                | 0.125                                   | 0.52   | 0.22   |  |  |
| 6.35              | 9.53           | 3.18                                 | 3.18                                    | 13.2   | 5.6  |  |  |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | -320° to +400°F (-195° to +205°C) |  |  |  |
| EK  | K-alloy foil in combination with a tough, flexible polyimide backing.     | ±1.5%        | –320° to +350°F (–195° to +175°C) |  |  |  |
| S2K   | K-alloy foil with laminated thick, high-performance polyimide backing.    | ±1.5%        | –100° to +250°F (–75° to +120°C)  |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | -100° to +400°F (-75° to +205°)   |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

**Note 1:** Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTER          | RN DATA                 |                                  |               |   |  |
|----------------------|-------------------------|----------------------------------|---------------|---|--|
| •                    | ·                       |                                  | GA<br>DESIGN  |   |  |
|                      | EMEME                   |                                  | See No        | te 1, 3 See Not   | te 2 See Note 3  |
|                      |                         | actual size                      |               | BG-350       350 ± 0         DBG-120       120 ± 0         BG-350       350 ± 0         3G-120       120 ± 0         BG-350       350 ± 0 | .3% E, L*, LE*<br>.3% W*<br>.3% W*<br>.15%<br>.3%<br>.6%<br>.6%<br>.6% |
| GAGE DI              | MENSIONS                | ES = Each Sect<br>S = Section (S |               | = Complete Pattern<br>= Matrix  | inch<br>millimeter   |
|                      |                         | Grid Width                       | Overall Width | Matrix Length   | Matrix Width   |
| Gage Length          | Overall Length          |                                  |               | •   |  |
| Gage Length<br>0.250 | Overall Length<br>0.375 | 0.125                            | 0.125         | 0.52  | 0.22   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | -100° to +350°F (-75° to +175°C)  |  |  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | -452° to +550°F (-269° to +290°C) |  |  |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | -452° to +450°F (-269° to +230°C) |  |  |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | –320° to +400°F (–195° to +205°C) |  |  |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTER | N DATA         |                                      |      |               |  |                     |                        |
|-------------|----------------|--------------------------------------|------|---------------|--|---------------------|------------------------|
| •           | •              |                                      |      | GAC<br>DESIGN |  | RESISTANC<br>(OHMS) | E OPTIONS<br>AVAILABLE |
|             | EMEME          |                                      |      | See Not       | e 1, 3   | See Note 2          | See Note 3             |
|             |                | actual size                          |      |               | BK-10C<br>3K-30C<br>3K-10C<br>3K-30C<br>TON<br>ance gage |                     | W*<br>W*<br>W*         |
| •           | •              |                                      |      |               |  |                     |                        |
| GAGE DIN    | IENSIONS       | ES = Each Section<br>S = Section (S1 | on   |               | - Complete<br>- Matrix                                   | Pattern             | inch<br>millimeter     |
| Gage Length | Overall Length | Grid Width                           | Over | all Width     | Matrix   | Length              | Matrix Width           |
| 0.250       | 0.430          | 0.175                                | (    | 0.175         | 0.   | 58                  | 0.27                   |
| 6.35        | 10.92          | 4.45                                 |      | 4.45          | 14   | 4.7                 | 6.9                    |

| GAG    | GAGE SERIES DATA — See Gage Series datasheet for complete specifications  |              |                                   |  |  |  |  |  |  |
|--------|---|--------------|-----------------------------------|--|--|--|--|--|--|
| Series | Description   | Strain Range | Temperature Range                 |  |  |  |  |  |  |
| EA     | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |  |  |  |
| WA     | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |  |  |  |
| WK     | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |  |  |  |
| SA     | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |  |  |  |
| SK     | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.



| AGE PATTER  | RN DATA        |                                  |  |                                    |                          |
|-------------|----------------|----------------------------------|--|------------------------------------|--------------------------|
|             | MEME           |                                  |  | IGE RESISTANATION (OHM             |                          |
|             | *              |                                  | See N  | Note 1                             |                          |
| ~ ~ .       |                | actual size                      | L2A-XX-25<br>L2A-XX-25<br>C2A-XX-25<br>C2A-XX-25 | 0LW-350 350 ± 0<br>0LW-120 120 ± 0 | 0.6%<br>0.6%             |
|             |                |                                  | <b>DESCRIP</b><br>Widely us                      | TION<br>ed general-purpose gag     | ge.<br>RoHS<br>compliant |
| GAGE DI     | MENSIONS       | ES = Each Sect<br>S = Section (S |  | = Complete Pattern<br>= Matrix     | inch<br>millimeter       |
| Gage Length | Overall Length | Grid Width                       | Overall Width                                    | Matrix Length                      | Matrix Width             |
| 0.250       | 0.363          | 0.100                            | 0.100  | 0.440                              | 0.170                    |
| 6.35        | 9.22           | 2.54                             | 2.54   | 11.18                              | 4.32                     |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |                     |                                  |  |  |  |  |
|---|---|---------------------|----------------------------------|--|--|--|--|
| Series  | Description   | Strain Range        | Temperature Range                |  |  |  |  |
| L2A   | Encapsulated constantan gages with preattached ribbon leads.        | ±3%                 | –100° to +250°F (–75° to +120°C) |  |  |  |  |
| C2A   | Encapsulated constantan gages with preattached ready-to-use cables. | ±3%                 | –60° to +180°F (–50° to +80°C)   |  |  |  |  |
|   | Example of an<br>L2A Construction                                   | Example<br>C2A Cons |                                  |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| DESIGNATION (OHMS) AVAILABL  | GAGE PATTER | RN DATA        |            |          |   |   |  |  |
|--|-------------|----------------|------------|----------|---|---|--|--|
| GAGE DIMENSIONS         ES = Each Section<br>S = Section (S1 = Section 1)         CP = Complete Pattern<br>M = Matrix         Inch<br>millimeter   |             | A 1            | •          |          |   |   |  |  |
| GAGE DIMENSIONS         ES = Each Section<br>S = Section (S1 = Section 1)         S50 ± 0.2%<br>(M, SE<br>ED-DV-250PD-350<br>(SK-XX-250PD-350)<br>(SSK-XX-250PD-10C)<br>(1000 ± 0.2%<br>(M, SE<br>ED-DV-250PD-350)<br>(SSC ± CXX-250PD-350)<br>(SSC ± CXX-250 | DODOOD      |                | 1000       |          | See Not   | e 1, 3  | See Note   | 2 See Note 3   |
| GAGE DIMENSIONS       ES = Each Section<br>S = Section (S1 = Section 1)       CP = Complete Pattern<br>M = Matrix       inch<br>millimeter   | _           |                | actu       | ual size | EA-XX-250P<br>ED-DY-250P<br>EK-XX-250P<br><b>S2K-XX-250</b><br><b>WA-XX-250</b><br>WK-XX-250F<br>SA-XX-250F<br>SA-XX-250F<br>SA-XX-250F<br>SK-XX-250F<br>SK-XX-250F<br>SC-XX-250F<br>SD-DY-250F | D-350<br>D-350<br>D-10C<br>PD-10C<br>PD-120<br>PD-350<br>PD-350<br>PD-10C<br>PD-350<br>PD-350<br>PD-350<br>PD-350<br>PD-10C<br>PD-350<br>PD-350 | $350 \pm 0.2 \\ 350 \pm 0.4 \\ 1000 \pm 0.2 \\ 1000 \pm 0.4 \\ 120 \pm 0.3 \\ 350 \pm 0.3 \\ 350 \pm 0.4 \\ 120 \pm 0.4 \\ 120 \pm 0.4 \\ 350 \pm 0.4 \\ 35$ | 13, 2, 2, 2       22%     W, E, L, LE       14%     E       22%     W, SE       14%     W*       38%     W*       38%     W*       14%     W*       14%     W*       14%     14%       14%     14%       14%     14% |
| GAGE DIMENSIONSES = Each Section<br>S = Section (S1 = Section 1)CP = Complete Pattern<br>M = MatrixInch<br>millimeter  |             |                |            |          | Dual-eleme<br>spaced 0.1<br>pattern. Ek<br>copper pac   | nt pattern v<br>30 in [3.30<br>(-Series ga<br>ds (DP) who   | ) mm] apart<br>iges are suj  | . See also 250MC<br>pplied with duple  |
| Gage Length         Overall Length         Grid Width         Overall Width         Matrix Length         Matrix Width   | GAGE DI     | MENSIONS       |            | on       | CP =  |   | Pattern  |  |
|  | Gage Length | Overall Length | Grid Width | Over     | all Width   | Matrix  | Length   | Matrix Width   |

| GAG    | GAGE SERIES DATA — See Gage Series datasheet for complete specifications  |              |                                   |  |  |  |  |  |
|--------|---|--------------|-----------------------------------|--|--|--|--|--|
| Series | Description   | Strain Range | Temperature Range                 |  |  |  |  |  |
| EA     | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |  |  |
| ED     | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | -320° to +400°F (-195° to +205°C) |  |  |  |  |  |
| EK     | K-alloy foil in combination with a tough, flexible polyimide backing.     | ±1.5%        | -320° to +350°F (-195° to +175°C) |  |  |  |  |  |
| S2K    | K-alloy foil with laminated thick, high-performance polyimide backing.    | ±1.5%        | –100° to +250°F (–75° to +120°C)  |  |  |  |  |  |
| WA     | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |  |  |
| WK     | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | -452° to +550°F (-269° to +290°C) |  |  |  |  |  |
| SA     | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |  |  |
| SK     | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | -452° to +450°F (-269° to +230°C) |  |  |  |  |  |
| SD     | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | -320° to +400°F (-195° to +205°C) |  |  |  |  |  |
| WD     | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | -320° to +500°F (-195° to +260°C) |  |  |  |  |  |

0.240

6.10

0.44

11.2

0.110

2.79

Note 1: Insert desired S-T-C number in spaces marked XX.

0.358

9.09

**Note 2:** Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

\*Options available but not normally recommended. See Optional Features datasheet for details.

0.250

6.35

0.32

8.1



| AGE PATTER  | IN DATA        |                                   |                        |   |                    |
|-------------|----------------|-----------------------------------|------------------------|---|--------------------|
|             |                |                                   |                        | GE RESISTA<br>NATION (OHM                           |                    |
|             |                |                                   | See N                  | Jote 1  | See Note           |
|             |                | actual size                       | CEA-XX-25<br>CEA-XX-25 |   |                    |
|             |                |                                   |                        | urpose gage with narrow<br>area 0.08 x 0.05 in (2.0 |                    |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S |                        | = Complete Pattern<br>= Matrix                      | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width                        | Overall Width          | Matrix Length                                       | Matrix Width       |
| 0.250       | 0.415          | 0.120                             | 0.120                  | 0.52  | 0.22               |
|             | 10.54          | 3.05                              | 3.05                   | 13.2  | 5.6                |

| GAG    | AGE SERIES DATA — See Gage Series datasheet for complete specifications |              |                                  |  |  |  |  |
|--------|---|--------------|----------------------------------|--|--|--|--|
| Series | Description   | Strain Range | Temperature Range                |  |  |  |  |
| CEA    | Universal general-purpose strain gages.                                 | ±5%          | –100° to +350°F (–75° to +175°C) |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| See Note 1       See Note 2         CEA-XX-250UW-120       120 ± 0.3%       P2         CEA-XX-250UW-120       175 ± 0.3%       P2         CEA-XX-250UW-100       1000 ± 0.3%       P2         IOD ± 0.3%       P2       P2         Bactual size       DESCRIPTION       1000 ± 0.3%       P2         GAGE DIMENSIONS       ES = Each Section<br>S = Section (S1 = Section 1)       CP = Complete Pattern<br>M = Matrix       inch<br>millimeter | GAGE PATTER | N DATA         |             |      |  |                            |                                      |  |
|---|-------------|----------------|-------------|------|--|----------------------------|--------------------------------------|--|
| GAGE DIMENSIONS       ES = Each Section (S1 = Section 1)       CP = Complete Pattern Millimeter         CAGE DIMENSIONS       ES = Each Section (S1 = Section 1)       CP = Complete Pattern Millimeter   |             |                | 1           |      |  |                            |                                      |  |
| GAGE DIMENSIONS       ES = Each Section S = Section (S1 = Section 1)       CP = Complete Pattern millimeter   | MAAF        | RAAAAAAA       |             |      | See No   | ote 1                      |                                      | See Note 2   |
| 0.10 x 0.07 in (2.5 x 1.8 mm). See also 250UN pattern.         GAGE DIMENSIONS         ES = Each Section<br>S = Section (S1 = Section 1)         CP = Complete Pattern<br>M = Matrix  |             |                | actual size |      | CEA-XX-250<br>CEA-XX-250<br>CEA-XX-250<br>DESCRIPT | UW-175<br>UW-350<br>UW-10C | 175 ± 0.3<br>350 ± 0.3<br>1000 ± 0.3 | %         P2           %         P2           %         P2 |
| GAGE DIMENSIONS     ES = Each Section     CP = Complete Pattern       S = Section (S1 = Section 1)     M = Matrix   |             | •              |             |      |  |                            |                                      |  |
| Gage Longth Overall Longth Crid Width Overall Width Matrix Longth Metrix Width  | GAGE DIN    | IENSIONS       |             | on   | CP =   |                            | Pattern                              | -  |
| Gage Length         Overall Length         Grid Width         Overall Width         Matrix Length         Matrix Width  | Gage Length | Overall Length | Grid Width  | Over | rall Width   | Matrix                     | Length                               | Matrix Width   |
| 0.250 0.450 0.180 0.180 0.55 0.27   | 0.250       | 0.450          | 0.180       | (    | 0.180  | 0.                         | 55                                   | 0.27   |
| 6.35         11.43         4.57         4.57         14.0         6.9   | 6.35        | 11.43          | 4.57        |      | 4.57   | 14                         | 4.0                                  | 6.9  |

| GAG    | E SERIES DATA — See Gage Series datasheet for complete specifications |              |                                  |  |  |  |  |
|--------|---|--------------|----------------------------------|--|--|--|--|
| Series | Description   | Strain Range | Temperature Range                |  |  |  |  |
| CEA    | Universal general-purpose strain gages.                               | ±5%          | -100° to +350°F (-75° to +175°C) |  |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



|             | 4              |                                   |       | GAG<br>DESIGN/            |                    | RESISTANC<br>(OHMS)      | CE OPTIONS         |
|-------------|----------------|-----------------------------------|-------|---------------------------|--------------------|--------------------------|--------------------|
|             |                |                                   |       | See No                    | ote 1              |                          | See Note           |
|             |                | actual size                       |       | CEA-XX-375<br>CEA-XX-375  |                    | 120 ± 0.39<br>350 ± 0.39 |                    |
|             |                |                                   |       | DESCRIPT                  | ION                |                          |                    |
| -           |                |                                   |       | General-pu<br>0.10 x 0.07 |                    |                          | solder tab are     |
| GAGE DI     | MENSIONS       | ES = Each Secti<br>S = Section (S | on    |                           | Complete<br>Matrix | Pattern                  | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width                        | Overa | ll Width                  | Matrix             | Length                   | Matrix Width       |
| 0.375       | 0.575          | 0.180                             | 0.    | 180                       | 0.                 | 67                       | 0.27               |
| 9.53        | 14.61          | 4.57                              |       | .57                       |                    | 7.0                      | 6.9                |

| GAGI   | <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |     |                                  |  |  |  |
|--------|---|-----|----------------------------------|--|--|--|
| Series | Description   |     | Temperature Range                |  |  |  |
| CEA    | Universal general-purpose strain gages.   | ±5% | –100° to +350°F (–75° to +175°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Products with designations and options shown in **bold** are not RoHS compliant.



| GAGE PATTER | RN DATA        |                                  |               |  |  |
|-------------|----------------|----------------------------------|---------------|--|--|
| •           | <u>EMEME</u>   |                                  |               | GE RESISTA<br>NATION (OHM  |  |
|             | <b>A</b>       |                                  | See No        | ote 1, 3 See No  | te 2 See Note 3  |
|             |                | actual size                      |               | BH-350       350 ± 0         0BH-120       120 ± 0         0BH-350       350 ± 0         3BH-120       120 ± 0         0BH-120       120 ± 0         0BH-120       120 ± 0         0BH-350       350 ± 0         0BH-350       350 ± 0         0BH-350       350 ± 0 | .3% E, L*, LE*<br>.3% W*<br>.3% W*<br>.15%<br>.3%<br>.3%<br>.6%<br>.6% |
| •           |                |                                  | Legend        |  | inch   |
| GAGE DI     | MENSIONS       | ES = Each Sect<br>S = Section (S | on CP         | = Complete Pattern<br>= Matrix   | inch<br>millimeter   |
| Gage Length | Overall Length | Grid Width                       | Overall Width | Matrix Length  | Matrix Width   |
|             | 0 700          | 0.175                            | 0.175         | 0.92   | 0.30   |
| 0.500       | 0.720          | 0.175                            | 0.175         | 0.02   | 0.00   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | -100° to +350°F (-75° to +175°C)  |  |  |  |
| ED  | Isoelastic foil in combination with tough, flexible polyimide film.       | ±2%          | –320° to +400°F (–195° to +205°C) |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |
| SD  | Equivalent to WD Series, but with solder dots instead of leadwires.       | ±1.5%        | -320° to +400°F (-195° to +205°C) |  |  |  |
| WD  | Fully encapsulated isoelastic gages with high-endurance leadwires.        | ±1.5%        | –320° to +500°F (–195° to +260°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

\*Options available but not normally recommended. See Optional Features datasheet for details.



| AGE PATTEF  | RN DATA        |                                  |                        | 1  |                    |
|-------------|----------------|----------------------------------|------------------------|--|--------------------|
| 1000        | <b>A</b>       |                                  |                        | GE RESIST<br>NATION (OHM                           |                    |
|             | 0000           |                                  | See N                  | lote 1   | See Note           |
|             |                | actual size                      | CEA-XX-50<br>CEA-XX-50 | 00UW-350 350 ±                                     |                    |
|             |                |                                  |                        | TION<br>urpose gage. Expos<br>7 in (2.5 x 1.8 mm). | sed solder tab are |
| GAGE DI     | MENSIONS       | ES = Each Sect<br>S = Section (S |                        | = Complete Pattern<br>= Matrix                     | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width                       | Overall Width          | Matrix Length                                      | Matrix Width       |
| 0.500       | 0.700          | 0.180                            | 0.180                  | 0.80   | 0.27               |
|             | 17.78          | 4.57                             | 4.57                   | 20.3   | 6.9                |

| GAG    | <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |              |                                  |  |  |  |
|--------|---|--------------|----------------------------------|--|--|--|
| Series | Description   | Strain Range | Temperature Range                |  |  |  |
| CEA    | Universal general-purpose strain gages.   | ±5%          | –100° to +350°F (–75° to +175°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.



| GAGE PATTER | N DATA         |  |  |   |   |
|-------------|----------------|--|--|---|---|
|             |                |  | GA<br>DESIGN   |   | TANCE OPTIONS<br>IMS) AVAILABLE   |
|             | חחחר           |  | See No   | ote 1, 3 See N  | Note 2 See Note 3   |
|             |                | actual size                                    | N2A-XX-10<br>N2A-XX-10C<br>EA-XX-10C<br>WA-XX-10C<br>EP-XX-10C<br>SA-XX-10C<br>SK-XX-10C | CBE-350 350 ±<br>BE-120 120 ±<br>CBE-120 120 ±<br>CBE-350 350 ±<br>BE-120 120 ±<br>CBE-120 120 ±<br>CBE-350 350 ± | = 0.15% W, E, L, LE, P<br>= 0.15% W, E, L, LE, P<br>= 0.15% W, E, L, LE, P<br>= 0.3% W*<br>= 0.3% W*<br>= 0.15%<br>= 0.3% |
|             | J. U.          |  | Large gen  | eral-purpose gage.  |   |
| GAGE DIN    | MENSIONS       | ES = Each Secti<br>S = Section (S <sup>-</sup> |  | = Complete Pattern<br>= Matrix  | inch<br>millimeter  |
| Gage Length | Overall Length | Grid Width                                     | Overall Width  | Matrix Length   | Matrix Width  |
| 1.000       | 1.250          | 0.250  | 0.250  | 1.36  | 0.33  |
| 25.40       | 31.75          | 6.35   | 6.35   | 34.5  | 8.4   |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| N2A   | Constantan foil gages with a thin, laminated, polyimide-film backing.     | ±3%          | –100° to +200°F (–75° to +95°C)   |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

\*Options available but not normally recommended. See Optional Features datasheet for details.



| GAGE PATTER | N DATA         |                                      |   |   |   |  |
|-------------|----------------|--------------------------------------|---|---|---|--|
|             |                |                                      | DESIC   | AGE<br>SNATION<br>Jote 1, 3   | RESISTANC<br>(OHMS)<br>See Note 2   | AVAILABLE  |
|             |                |                                      | N2A-XX-2<br>EA-XX-20<br><b>WA-XX-2</b><br>WK-XX-20<br>EP-XX-20<br><b>SA-XX-20</b> | 0CBW-120<br>0CBW-350<br>CBW-120<br>0CBW-350<br>CBW-350<br>CBW-120<br>0CBW-120<br>0CBW-350 | $\begin{array}{c} 120 \pm 0.29\\ 350 \pm 0.29\\ 120 \pm 0.29\\ 350 \pm 0.49\\ 120 \pm 0.49\\ 350 \pm 0.29\\ 120 \pm 0.49\\ 350 \pm 0.29\\ 120 \pm 0.49\\ 350 \pm 0.49\end{array}$ | 6 W, E, L, LE, <b>P</b><br>6 W, E, L, LE, <b>P</b><br>6 W*<br>6 <b>W</b> *<br>6 <b>W</b> * |
| <b>U</b>    |                | actual size                          | DESCRI<br>For use<br>specime  | on concrete a   | nd for strain in  | tegration on large   |
| GAGE DIN    | MENSIONS       | ES = Each Section<br>S = Section (S1 |   | P = Complete<br>/ = Matrix  | Pattern   | inch<br>millimeter   |
| Gage Length | Overall Length | Grid Width                           | Overall Width   | Matrix  | Length  | Matrix Width   |
| 2.000       | 2.250          | 0.188                                | 0.188   | 2.  | 46  | 0.32   |
| 50.80       | 57.15          | 4.78                                 | 4.78  | 62  | 2.5   | 8.1  |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                   |  |  |  |
|---|---|--------------|-----------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range                 |  |  |  |
| N2A   | Constantan foil gages with a thin, laminated, polyimide-film backing.     | ±3%          | –100° to +200°F (–75° to +95°C)   |  |  |  |
| EA  | Constantan foil in combination with a tough, flexible, polyimide backing. | ±5%          | –100° to +350°F (–75° to +175°C)  |  |  |  |
| WA  | Fully encapsulated constantan gages with high-endurance leadwires.        | ±2%          | –100° to +400°F (–75° to +205°)   |  |  |  |
| WK  | Fully encapsulated K-alloy gages with high-endurance leadwires.           | ±1.5%        | –452° to +550°F (–269° to +290°C) |  |  |  |
| EP  | Annealed constantan foil with tough, high-elongation polyimide backing.   | ±20%         | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SA  | Fully encapsulated constantan gages with solder dots.                     | ±2%          | –100° to +400°F (–75° to +205°C)  |  |  |  |
| SK  | Fully encapsulated K-alloy gages with solder dots.                        | ±1.5%        | –452° to +450°F (–269° to +230°C) |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.

Note 2: Tolerance is increased when Option W, E, SE, LE, or P is specified.

Note 3: Products with designations and options shown in **bold** are not RoHS compliant.

\*Options available but not normally recommended. See Optional Features datasheet for details.

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**20CBW** 





| AGE PATTER  | RN DATA        |                                  |                                      |                                |                    |
|-------------|----------------|----------------------------------|--------------------------------------|--------------------------------|--------------------|
|             |                |                                  |                                      | GE<br>NATION<br>Note 1         |                    |
|             |                | actual size                      |                                      | CLW-350 350 ±                  | ain                |
| GAGE DI     | MENSIONS       | ES = Each Sect<br>S = Section (S | Legend<br>ion CP<br>1 = Section 1) M | = Complete Pattern<br>= Matrix | inch<br>millimeter |
| Gage Length | Overall Length | Grid Width                       | Overall Width                        | Matrix Length                  | Matrix Width       |
| 2.000       | 2.155          | 0.175                            | 0.175                                | 2.232                          | 0.235              |
| 50.80       | 54.740         | 4.450                            | 4.450                                | 56.692                         | 5.969              |

| <b>GAGE SERIES DATA</b> — See Gage Series datasheet for complete specifications |   |              |                                |  |  |  |
|---|---|--------------|--------------------------------|--|--|--|
| Series  | Description   | Strain Range | Temperature Range              |  |  |  |
| C2A   | Encapsulated constantan gages with preattached ready-to-use cables. | ±3%          | –60° to +180°F (–50° to +80°C) |  |  |  |
|   |   |              |                                |  |  |  |
|   | Example of a<br>C2A Construction                                    |              |                                |  |  |  |

Note 1: Insert desired S-T-C number in spaces marked XX.



| GAGE PATTERN |                 | GAGE SERIES   | GAGE RESISTANCE   | GAGE LENGTH   |              |  |
|--------------|-----------------|---|---|---------------|--------------|--|
| GAGE PATTE   |                 | See Note 1  | (OHMS)  | inches        | millimeters  |  |
|              |                 |   | 11  |               |              |  |
| 008CL        |                 | SA  | 120   | 0.008         | 0.2          |  |
|              | <br>actual size |   |   | adient areas. |              |  |
| 015CK        |                 | EA, <b>WA</b> , EP, <b>SA</b>   | 120   | 0.015         | 0.38         |  |
|              | <br>actual size |   | -   | See also 015  | 5UW pattern. |  |
| 015EH        |                 | ea, ep, <b>sa, sk</b>   | 120   | 0.015         | 0.38         |  |
|              | actual size     | Micro-miniature pattern with tab at each side of grid.<br>Matrix size: 0.15L x 0.19W in. (3.8L x 4.8W mm) |   |               |              |  |
| 015LA        |                 | EA, EP  | 120   | 0.015         | 0.38         |  |
|              | actual size     | -   | for strain measurement in high-gradient areas.<br>_ x 0.13W in. (5.1L x 3.3W mm)<br>120 0.015<br>Dattern with enlarged solder tabs. See also 015<br>_ x 0.15W in. (4.8L x 3.8W mm)<br>120 0.015<br>Dattern with tab at each side of grid.<br>_ x 0.19W in. (3.8L x 4.8W mm) |               |              |  |
| 015SE        |                 | EA, EP, <b>SA</b>   | 120   | 0.015         | 0.38         |  |
| T T          | actual size     |   |   | use near abut | ments.       |  |
| 030LB        |                 | EA, EP, <b>SA</b>   | 120   | 0.03          | 0.76         |  |
|              | actual size     |   |   | abs must be   | at one end.  |  |

Note 1: Products with designations and options shown in **bold** are not RoHS compliant.

See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed. For all linear patterns offered, see <u>www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/</u>



|       |              | GAGE SERIES   | GAGE RESISTANCE | GAGE LENGTH     |             |
|-------|--------------|---|-----------------|-----------------|-------------|
|       | GAGE PATTERN | See Note 1  | (OHMS)          | inches          | millimeters |
|       |              |   |                 |                 |             |
| 031MF | 88888888888  | EA, <b>SA</b>   | 120             | 0.031           | 0.79        |
|       | actual size  | Miniature ten-element strip gage with electrically independent grids. A parallel to long axis of pattern. Grid centerline spacing 0.080 in (2.03 m Matrix size: 0.94L x 0.19W in. (23.9L x 4.8W mm) |                 |                 |             |
| 032SG |              | EA, <b>WA</b> , WK, EP, <b>SA, SK</b>   | 120             | 0.032           | 0.81        |
|       | actual size  | Miniature gage with side-<br>Matrix size: 0.16L x 0.19V   |                 |                 |             |
| 045AL |              | EA, <b>SA</b>   | 350             | 0.045           | 1.14        |
|       | actual size  | Miniature high-resistance<br>Matrix size: 0.22L x 0.14V   |                 |                 |             |
| 050AH |              | EA, ED, EP, <b>SA, SK, SD</b>   | 120, 350        | 0.05            | 1.27        |
|       | actual size  | General-purpose miniatur<br>Matrix size: 0.23L x 0.14V  | 0.0             |                 |             |
| 050AR | ·            | EA, ED, <b>WA</b> , WK, <b>SA, SK, SD</b> , WD  | 120, 350        | 0.05            | 1.27        |
|       | actual size  | General-purpose miniatur<br>Matrix size: 0.25L x 0.18V  |                 | tabs.           |             |
| 050SB |              | EA, ED, <b>WA</b> , WK, EP,<br><b>SA, SK, SD</b> , WD   | 120, 350        | 0.05            | 1.27        |
|       | actual size  | Similar to the 050AH patte<br>Matrix size: 0.19L x 0.19V  |                 | at side of gric | l.          |

Note 1: Products with designations and options shown in **bold** are not RoHS compliant.

See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed.





|       |  |             | GAGE SERIES  | GAGE RESISTANCE               | GAGE           | LENGTH        |
|-------|--|-------------|--|-------------------------------|----------------|---------------|
|       | GAGE PATTER                                    | RN          | See Note 1   | (OHMS)                        | inches         | millimeters   |
|       |  |             |  |                               |                | •             |
| 060CD |  |             | EA, ED, <b>WA</b> , WK, <b>SA,</b><br><b>SK, SD</b> , WD | 350, 1000                     | 0.06           | 1.52          |
|       |  | actual size | Small high-resistance gag                                | ge. See also 060CN patte      | ern.           |               |
|       | <b>—</b> , <b>—</b>                            |             | Matrix size: 0.28L x 0.20                                | <i>N</i> in. (7.1L x 5.1W mm) |                |               |
|       |  |             |  |                               |                |               |
| 060CN | ĴĹ.  |             | EA, ED, <b>WA</b> , WK, EP,<br><b>SA, SD</b> , WD        | 120, 350                      | 0.06           | 1.52          |
|       |  |             |  |                               |                |               |
|       |  | actual size | Similar to 060CD pattern                                 | except for grid resistance    | e.             |               |
|       | <b>—</b> , <b>—</b>                            |             | Matrix size: 0.26L x 0.18                                | N in. (6.6L x 4.6W mm)        |                |               |
|       |  |             | L.   |                               |                |               |
| 060CP |  |             | EA, ED, <b>WA</b> , WK, EP,<br><b>SA, SK, SD</b> , WD    | 120, 350                      | 0.06           | 1.52          |
|       |  |             |  |                               |                |               |
|       |  | actual size | Small high-resistance gag                                |                               | ing capability | •             |
|       |  |             | Matrix size: 0.31L x 0.26                                | <i>N</i> in. (7.9L x 6.6W mm) |                |               |
|       |  |             |  |                               |                |               |
| 062DF |  | P           | EA, ED, <b>WA</b> , WK, EP,<br><b>SA, SK, SD</b> , WD    | 120, 350                      | 0.062          | 1.57          |
|       |  | actual size | General-purpose gage w pattern.                          | vith solder tab at each e     | nd of grid. S  | ee also 062DN |
|       | Ţ  |             | Matrix size: 0.32L x 0.16                                | V in. (8.1L x 4.1W mm)        |                |               |
| L     |  |             | 1  | · · ·                         |                |               |
| 070LC |  | [1]         | EA   | 120, 350                      | 0.07           | 1.78          |
|       | -  |             |  |                               |                |               |
|       |  | actual size | Very narrow gage for use                                 | in restricted areas.          |                |               |
|       | <b>P</b>                                       |             | Matrix size: 0.24L x 0.09                                | V in. (6.1L x 2.3W mm)        |                |               |
| L     |  |             | 1  | · · · ·                       |                |               |
| 090DG | × <b>–</b> – – – – – – – – – – – – – – – – – – |             | EA, ED, EP, <b>SA, SK, SD</b>                            | 120, 350                      | 0.09           | 2.29          |
|       |  |             | Intermediate-size grid w patterns.                       | vith tab at each end. S       | ee also 090[   | OH and 090EF  |
|       |  | actual size | Matrix size: 0.44L x 0.263                               | 3W in. (11.2L x 6.6W mm)      | )              |               |
|       |  |             |  |                               |                |               |

Note 1: Products with designations and options shown in **bold** are not RoHS compliant.

See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed.



|       |                                  |             | GAGE SERIES  | GAGE RESISTANCE             | GAGE LENGTH     |                 |
|-------|----------------------------------|-------------|--|-----------------------------|-----------------|-----------------|
|       | GAGE PATTER                      | N           | See Note 1   | (OHMS)                      | inches          | millimeters     |
| 090DH |                                  |             | EA, ED, EP, <b>SA, SK, SD</b>  | 350, 1000                   | 0.09            | 2.29            |
|       |                                  | actual size | High-resistance version o<br>Matrix size: 0.45L x 0.27V                  |                             |                 |                 |
| 090EF |                                  | []          | EA, ED, EP, <b>SA, SK, SD</b>  | 120, 350                    | 0.09            | 2.29            |
|       | <b>⋴<b>∁</b>⋥<mark>⋃</mark>⊦</b> | actual size | Similar to 090DG pattern<br>090EG pattern.<br>Matrix size: 0.29L x 0.36V |                             | each side of    | grid. See also  |
|       |                                  |             | Wath Size. 0.29L X 0.30V   | v III. (7.4L X 9.1VV IIIII) |                 |                 |
| 090EG |                                  |             | EA, ED, EP, <b>SA, SK, SD</b>  | 350, 1000                   | 0.09            | 2.29            |
|       |                                  | actual size | High-resistance version o<br>Matrix size: 0.29L x 0.36V                  |                             |                 |                 |
| 125BS | \ <b>İ</b> ,                     |             | ED, WK, <b>SK, SD,</b> WD  | 120                         | 0.125           | 3.18            |
|       |                                  | actual size | Narrow pattern primarily u<br>Matrix size: 0.38L x 0.14V                 |                             | eries for 120-c | ohm resistance. |
| 125EP |                                  |             | EA, ED, EP, <b>SA, SK, SD</b>  | 350, 1000                   | 0.125           | 3.18            |
|       |                                  | actual size | High-resistance gage with<br>Matrix size: 0.28L x 0.35V                  | -                           | . See also 12   | 5EQ pattern.    |
| 125EQ |                                  |             | EA, ED, EP, <b>SA, SK, SD</b>  | 120, 350                    | 0.125           | 3.18            |
|       |                                  | actual size | Similar to 125EP pattern e<br>Matrix size: 0.28L x 0.35V                 |                             | 9.              |                 |

Note 1: Products with designations and options shown in **bold** are not RoHS compliant.

See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed.





|       |  |                   | GAGE SERIES   | GAGE RESISTANCE           | GAGE LENGTH     |                  |
|-------|--|-------------------|---|---------------------------|-----------------|------------------|
|       | GAGE PATTER  | N                 | See Note 1  | (OHMS)                    | inches          | millimeters      |
|       |  |                   |   | 1                         |                 | -                |
| 125MG |  |                   | EA, <b>WA</b> , WK, <b>SA, SK</b>                             | 120, 350                  | 0.125           | 3.18             |
|       |  | actual size       | Dual-pattern gage for use<br>grid centerlines spaced 0.       |                           | ng application  | is. Longitudinal |
|       |  |                   | Matrix size: 0.32L x 0.47V                                    | V in. (8.1L x 11.9W mm)   |                 |                  |
|       |  |                   |   |                           |                 |                  |
| 125UE |  |                   | CEA   | 120, 350                  | 0.125           | 3.18             |
|       |  |                   | General-purpose gage wi<br>area 0.08 x 0.07 in (2.0 x         |                           | of grid. Expo   | osed solder tab  |
|       | ų, turi ir statististas ir statistas | actual size       | Matrix size: 0.57L x 0.20V                                    | V in. (14.5L x 5.1W mm)   |                 |                  |
|       |  |                   |   |                           |                 |                  |
| 230DS |  | R                 | EA, ED, <b>WA</b> , WK, EP,<br><b>SA, SK, SD,</b> WD          | 120, 350                  | 0.23            | 5.84             |
| •     |  | •                 | General-purpose gage wit                                      | th verv narrow geometry   |                 |                  |
|       |  | actual size       | Matrix size: 0.50L x 0.12V                                    |                           |                 |                  |
|       |  |                   |   |                           |                 |                  |
| 250AF | ` <b></b> ^  |                   | EA, ED, <b>WA</b> , WK, EP,<br><b>SA</b> , <b>SK, SD</b> , WD | 120, 350                  | 0.25            | 6.35             |
|       | -  |                   |   |                           |                 |                  |
|       |  |                   | General-purpose gage wit                                      | th high-dissipation grid. |                 |                  |
|       | <b>,</b>   | actual size       | Matrix size: 0.57L x 0.36V                                    | V in. (14.5L x 9.1W mm)   |                 |                  |
|       |  |                   |   |                           |                 |                  |
| 250BB |  |                   | EA, ED, EP  | 120, 350                  | 0.25            | 6.35             |
|       |  |                   |   | ,                         |                 | 1                |
|       |  | $[\sqcup \sqcup]$ | General-purpose gage wit                                      | th large solder tabs.     |                 |                  |
|       | , E  | actual size       | Matrix size: 0.64L x 0.21V                                    | -                         |                 |                  |
| L     |  |                   |   | (                         |                 |                  |
| 250BK |  |                   | EA, <b>WA</b> , WK, <b>SA, SK</b>                             | 1000, 3000                | 0.25            | 6.35             |
|       |  |                   | High-resistance gage wit                                      | • • •                     | on capability f | for high output  |
|       |  | actual size       | Matrix size: 0.58L x 0.27V                                    |                           |                 |                  |
| L     |  |                   |   | ,                         |                 |                  |

Note 1: Products with designations and options shown in **bold** are not RoHS compliant.

See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed.



|       | GAGE PATTERN |             | GAGE SERIES  | GAGE RESISTANCE                                       | GAGE                           | LENGTH          |
|-------|--------------|-------------|--|---|--------------------------------|-----------------|
|       | GAGE PATTER  | IN          | See Note 1   | (OHMS)  | inches                         | millimeters     |
| 250BM | ;<br>;<br>;  |             | EA, ED, <b>WA</b> , WK, EP,<br><b>SA</b> , <b>SK, SD</b> , WD  | 500, 1500   | 0.25                           | 6.35            |
|       |              | actual size | General-purpose gage wi<br>Matrix size: 0.58L x 0.27V  |   |                                |                 |
| 250BP | , min,       |             | <b>SK</b> , WK, ED, <b>SD</b> , WD   | 120   | 0.25                           | 6.35            |
|       |              | actual size | A general-purpose gage<br>SK and WK Series.<br>Matrix size: 0.53L x 0.22V                                    |   | 120-ohm gri                    | d resistance ir |
|       |              |             |  |   |                                |                 |
| 250MQ |              |             | EA, ED, EK, <b>WA</b> , WK, <b>SA</b> , <b>SK, SD</b> , WD   | 350, 1000   | 0.25                           | 6.35            |
|       |              | actual size | Dual pattern for back-<br>centerlines are spaced 0.<br>with duplex copper pads<br>Matrix size: 0.47L x 0.40V | 185 in (4.70 mm) apart. E<br>(DP) when optional featu | K-Series gage<br>re W or SE is | es are supplied |
| 350DD | Ê            | F           | EA, ED, <b>WA</b> , WK, EP,<br><b>SA</b> , <b>SK, SD</b> , WD  | 350, 1000   | 0.35                           | 8.89            |
|       |              | actual size | General-purpose gage wi<br>grid.<br>Matrix size: 0.61L x 0.18V   |   | etry and tab                   | at each end of  |
|       |              |             | [  |   |                                |                 |
| 375BG |              | $\square$   | EA, ED, <b>WA</b> , WK, EP,<br><b>SA</b> , <b>SK, SD</b> , WD  | 120, 350  | 0.375                          | 9.53            |
|       |              | actual size | General-purpose gage.<br>Matrix size: 0.71L x 0.29V  | V in. (18.0L x 7.4W mm)                               |                                |                 |
| 500BL |              | $\Box$      | EA, ED, <b>WA</b> , WK, EP,<br><b>SA</b> , <b>SK, SD</b> , WD  | 350, 1000   | 0.5                            | 12.7            |
|       | • •          |             |  |   |                                |                 |
|       | ,            |             | Widely used general-purp   | ose gage with compact                                 | geometry.                      |                 |

Note 1: Products with designations and options shown in **bold** are not RoHS compliant.

See <u>www.micro-measurements.com/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications of patterns listed. For all linear patterns offered, see <u>www.micro-measurements.com/stress-analysis-strain-gages/all-linear-patterns/</u>



|       |                    | GAGE SERIES  | GAGE RESISTANCE          | GAGE LENGTH    |             |
|-------|--------------------|--|--------------------------|----------------|-------------|
|       | GAGE PATTERN       | See Note 1   | (OHMS)                   | inches         | millimeters |
|       |                    |  |                          |                |             |
| 500GB |                    | EA, ED, <b>WA</b> , WK, EP,<br><b>SA</b> , <b>SK, SD</b> , WD      | 120, 350                 | 0.5            | 12.7        |
|       |                    |  |                          | 0              |             |
|       | actual size        | General-purpose gage wit   | , , ,                    | . See also 500 | GC pattern. |
|       |                    | Matrix size: 0.75L x 0.15V   | V in. (19.1L x 3.8W mm)  |                |             |
|       |                    | Ι  | 1                        |                | 1           |
| 500GC |                    | EA, ED, <b>WA</b> , WK, EP,<br><b>SA</b> , <b>SK, SD</b> , WD      | 350, 1000                | 0.5            | 12.7        |
|       |                    |  |                          |                |             |
|       |                    | General-purpose gage wi  | th very narrow geometry  |                |             |
|       | actual size        | Matrix size: 0.78L x 0.15V   | V in. (19.8L x 3.8W mm)  |                |             |
|       |                    | 1  |                          |                | -           |
| 40CBY | ·                  | N2A, EA, <b>WA</b> , WK, EP,<br><b>SA, SK</b>                      | 120, 350                 | 4              | 101.6       |
|       | ·                  |  |                          |                |             |
|       | 8                  |  |                          |                |             |
|       |                    | For use on concrete and for strain integration on large specimens. |                          |                |             |
|       | 30% of actual size | Matrix size: 4.49L x 0.33V   | V in. (114.0L x 8.4W mm) | )              |             |

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See <u>www.vishaypg.com/micro-measurements/stress-analysis-strain-gages/other-linear-patterns/</u> for complete specifications.