



		CHATS WORTH, CA.							
		SCALE	1X	REV	-	DATE	-	ECN	-
DATE		7/11/02		PART NO.		MODEL 5860B			
DRAWN		N.C.		CHECKED		R.A.			
APPROVED		7-12-02		NEXT ASSEMBLY		USED ON			
TITLE		OUTLINE/INSTALLATION DRAWING, MODEL 5860B IMPEDANCE HEAD					DWG NO.		127-5860B
							SHEET		OF

1. SENSITIVITIES OF MODEL 5860B: 100 mV/LB, 100 mV/G.



Dynamic Transducers and Systems

21592 Marilla St. • Chatsworth, CA 91311 • Phone 818-700-7818
 www.dytran.com • e-mail: info@dytran.com

MODEL 5860B IMPEDANCE HEAD

SPECIFICATION	VALUE	UNITS
FORCE SENSOR		
RANGE FOR ±5 VOLTS OUT	50	Lb F
MAXIMUM FORCE	± 100	Lb F
SENSITIVITY, ± 10%	100	mV/Lb F
RESOLUTION	.007	Lb F
RESONANT FREQUENCY, UNLOADED	>50	kHz
LINEARITY	± 2	%FS
MASS AHEAD OF QUARTZ CRYSTALS	10	Grams
POLARITY OF OUTPUT SIGNAL	Positive	For Compression
BIAS VOLTAGE	7.5 to 9.5	VDC
ACCELEROMETER		
RANGE FOR ± 5 VOLTS OUT	±50	G's
MAXIMUM ACCELERATION	±100	G's
SENSITIVITY, ±10%	100	mV/G
FREQUENCY RESPONSE, ±5%	1 to 8000	Hz
RESONANT FREQUENCY	>35	kHz
LINEARITY	±1	%FS
TRANSVERSE SENSITIVITY, MAX	5	%
POLARITY	Positive	Toward Driving Point
BIAS VOLTAGE	11 to 13	VDC
COMMON SPECIFICATIONS		
STIFFNESS, OVERALL	2.2X10 ⁷	Lb/in
OUTPUT IMPEDANCE	100	Ohms
TEMPERATURE RANGE	-100 to +250	°F
DISCHARGE TIME CONSTANT	1.0 – 2.0	Sec.
COEFFICIENT OF THERMAL SENSITIVITY	.03	%/°F
COMPLIANCE VOLTAGE	+18 to +30	VDC
CONSTANT CURRENT RANGE	2 to 20	mA
SIZE, HEX X HEIGHT	.75 X 1.06	In
WEIGHT	60	Grams
MATERIAL	316L	St. Steel
MOUNTING THREAD, BOTH ENDS	10-32	UNF-2B

ACCESSORIES SUPPLIED: (2) 6200 MOUNTING STUDS.