



PERFORMANCE SPECIFICATION MODEL 5310M1 HIGH TEMPERATURE VIBRATION MEASUREMENT SYSTEM

SPECIFICATION	VALUE	<u>UNITS</u>
PHYSICAL		
WEIGHT, accelerometer WEIGHT, charge amplifier MOUNTING PROVISION, integral stud	6.8 40 10-32	grams grams
CABLE LENGTH, from accel to charge amplifier CABLE TYPE CHARGE AMPLIFIER CONNECTOR MATERIAL, ACCELEROMETER	10 low noise coaxial BNC JACK 316L CRES	feet
PERFORMANCE (SYSTEM)		
SENSITIVITY [1] ±10% RANGE F.S. FOR ± 5 VOLTS OUTPUT FREQUENCY RANGE, ± 5% RESONANT FREQUENCY, NOM. LINEARITY [2] TRANSVERSE SENSITIVITY, MAX.	10 ± 500 10 to 10,000 30 ± 2% 5	mV/g gpk Hz kHz % F.S. %
ENVIRONMENTAL		
MAXIMUM VIBRATION MAXIMUM SHOCK TEMPERATURE RANGE (ACCELEROMETER)	600 3000 -100 to +400	g pk g pk °F
TEMPERATURE RANGE (CHARGE AMPLIFIER)	-73 to 260 -50 to +185	°C °F
SEAL, (ACCELEROMETER & CHG. AMP) HERMETIC COEFFICIENT OF THERMAL SENSITIVITY	-46 to 85 Ceramic-to-metal and laser welded .03	°C d %/°F
ELECTRICAL		
SUPPLY CURRENT [3] COMPLIANCE VOLTAGE RANGE OUTPUT IMPEDANCE, TYP. BIAS VOLTAGE DISCHARGE TIME CONSTANT OUTPUT SIGNAL POLARITY	2 to 20 +14 to +30 100 +8 TO +12 0.05 – 0.2 Positive For acc	mA Volts Ω VDC Sec eleration toward top

- [1] Measured at 100 Hz, 1 g rms per ISA RP 37.2.
- [2] Measured using zero-based best straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.