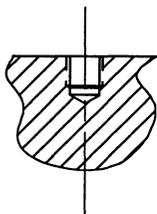


**SYSTEM COMPONENTS MODEL 5310M1, 1 EA. :**

- 3030C1- CHARGE MODE ACCELEROMETER
- 6019B10 - LOW NOISE CABLE, 10-32 TO BNC WITH 6549 ENVIRONMENTAL SEALING BOOT
- 4705M16 - IN-LINE CHARGE AMPLIFIER

**SYSTEM SENSITIVITY: 5 mV/G**



**PORT PREPARATION:**  
 PREPARE FLAT SURFACE OVER Ø .500 AREA.  
 AT CENTER DRILL #21(Ø .159) X .25 DEEP MIN  
 BOTTOM TAP #10-32 UNC-2B X .150 DEEP MIN

		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.					
						SCALE	1X	REV	-
DATE		12/14/99		PART NO.		MODEL 5310M2			
DRAWN		N.C.		CHECKED		R.A.		MAT'L	
APPROVED		12-14-99		NEXT ASSEMBLY		USED ON		5310M2	
TITLE		<b>OUTLINE/INSTALLATION DRAWING, SYSTEM MODEL 5310M2</b>						DWG NO. <b>127-5310M2</b>	
								SHEET 1 OF 1	

**EXCEPT AS OTHERWISE NOTED**

ALL DIMENSIONS IN INCHES  
 TOLERANCE: .XXX = ± .005 .XX = ± .01

SURFACE FINISH 63  
 EXCEPT AS NOTED ✓

BREAK EDGES TO DEBURR .003  
 RADIUS OR CHAMFER

△ THESE DIAS ⊙ TO T.I.R.

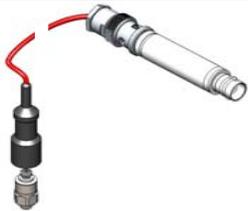
FILLETS - .005 MAX RAD.

**ALL PART NUMBER LETTER SUFFIXES ARE TO BE INTERPRETED AS FOLLOWS:**

I.E. - 107-0000-01 (X)

M - MACHINED ONLY (UNPLATED)      G - MATERIAL HAS BEEN GRAINED  
 P - PLATED/PAINTED                      S - MATERIAL HAS BEEN SAWCUT  
 H - HEAT TREATED                        E - ENVIRONMENTAL TEST

	<b>Single Axis Accelerometer with In-line Charge Amplifier</b>	REV A, ECN 10433, 10/07/13
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- High Temperature Vibration Measurement System
- Hermetically Sealed Accelerometer
- Minature Size

**PHYSICAL**  
 Weight (Accelerometer), Max  
 Weight (Charge Amplifier), Max  
 Mounting Provision, Integral Stud  
 Cable Length, From Accelerometer to Charge Amplifier  
 Cable Type  
 Charge Amplifier Connector  
 Material, Accelerometer

ENGLISH		SI	
0.2	oz	7	grams
1.4	oz	40	grams
10-32		10-32	
10	feet	3.05	meters
Low Noise Coaxial		Low Noise Coaxial	
BNC Jack		BNC Jack	
300 Series S.S.		300 Series S.S.	

**PERFORMANCE (SYSTEM)**  
 Sensitivity, ±10% [1]  
 Range F.S. For ± 5 Volts Output  
 Frequency Range, ± 5%  
 Resonant Frequency  
 Linearity [2]  
 Maximum Transverse Sensitivity

5	mV/g	0.5	mV/m/s <sup>2</sup>
±500	g peak	±4905	m/s <sup>2</sup> peak
10-10,000	Hz	10-10,000	Hz
> 30	kHz	> 30	kHz
± 2	% F.S.	± 2	% F.S.
5	%	5	%

**ENVIRONMENTAL**  
 Maximum Vibration  
 Maximum Shock  
 Temperature Range (Accelerometer)  
 Temperature Range (Charge Amplifier)  
 Seal, (Accelerometer and Charge Amplifier)  
 Coefficient of Thermal Sensitivity

600	Gpeak	5886	m/s <sup>2</sup> peak
3000	Gpeak	29430	m/s <sup>2</sup> peak
-100 to +500	°F	-73 to 260	°C
-50 to +185	°F	-46 to 85	°C
Hermetic		Hermetic	
.03	%/°F	0.05	%/°C

**ELECTRICAL**  
 Supply Current, Max [3]  
 Compliance Voltage Range  
 Output Impedence, TYP.  
 Bias Voltage  
 Discharge Time Constant  
 Output Signal Polarity (Acceleration Toward Top)

2 to 20	mA	2 to 20	mA
+14 to +30	Volts	+14 to +30	Volts
100	Ω	100	Ω
8 to 12	VDC	8 to 12	VDC
0.05 to 0.15	Sec	0.05 to 0.15	Sec
Positive		Positive	

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

Refer to the performance specifications of the products in this family for detailed description

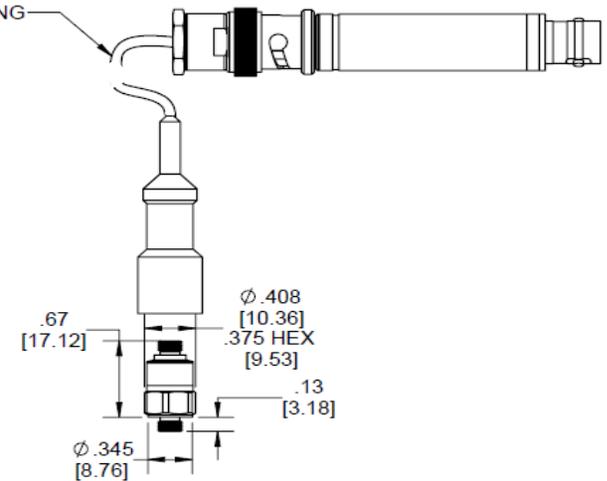
**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)

**Notes:**

- [1] Measure at 100 Hz., 1 Grms 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
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.

CABLE, 10 FT. LONG



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-5310M2 for more information.



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