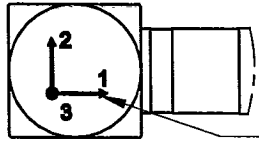


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REVISIONS

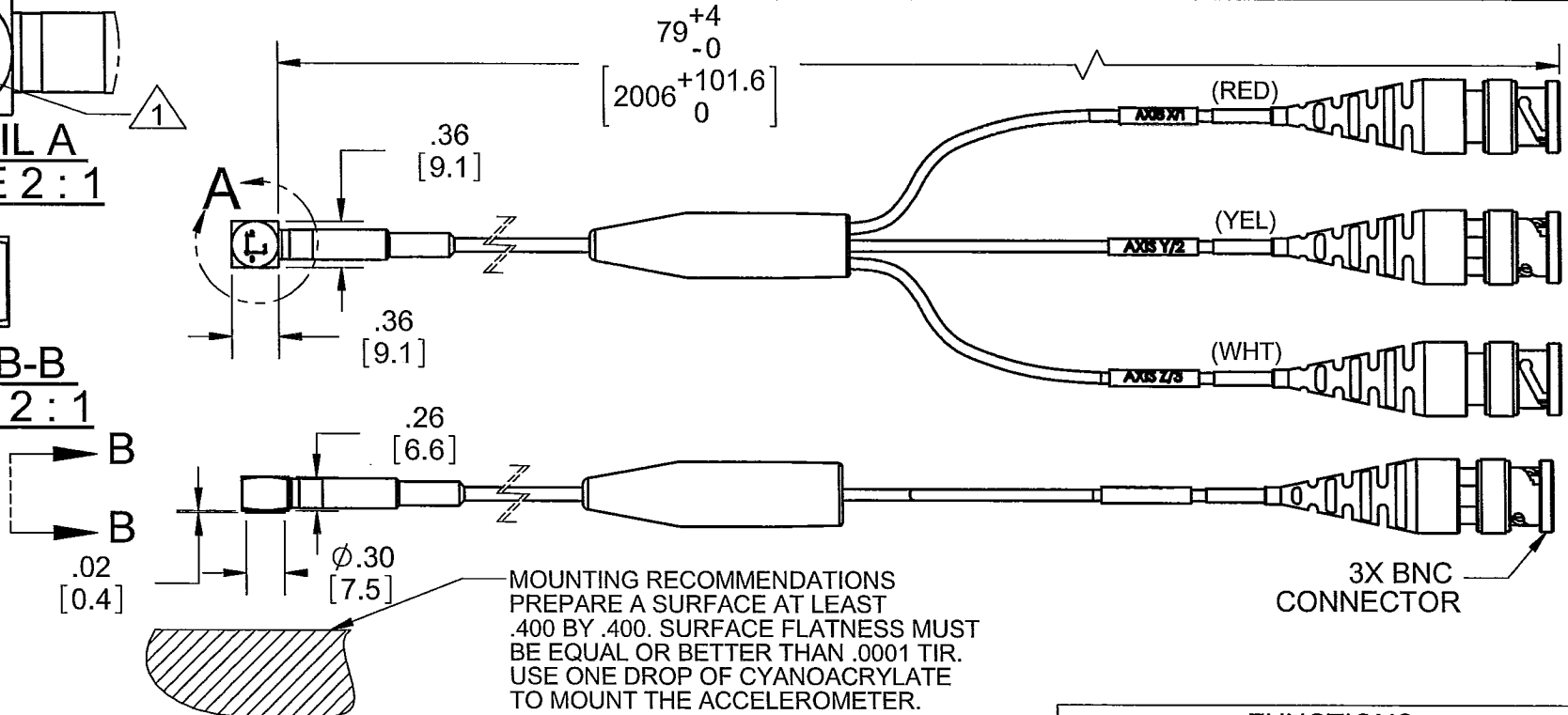
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
B	10423	SEE ECN	AB 09/26/13	LN	RT



DETAIL A
SCALE 2 : 1



VIEW B-B
SCALE 2 : 1



MOUNTING RECOMMENDATIONS
PREPARE A SURFACE AT LEAST
.400 BY .400. SURFACE FLATNESS MUST
BE EQUAL OR BETTER THAN .0001 TIR.
USE ONE DROP OF CYANOACRYLATE
TO MOUNT THE ACCELEROMETER.

2. HOUSING MATERIAL: TITANIUM

1 ARROWS INDICATE DIRECTIONS OF
ACCELERATION FOR POSITIVE OUTPUT.

NOTES: UNLESS OTHERWISE SPECIFIED.

FUNCTIONS

AXIS X/1	SIG/PWR
AXIS X/2	SIG/PWR
AXIS X/3	SIG/PWR

CONTRACT NO.



TITLE: **OUTLINE INSTALLATION DRAWING
TRIAxIAL ACCELEROMETER, MODEL
3243M2**

APPROVALS		DATE
ORIG	JS	10/25/10
CHK	DV	11/22/10
APP	AS	11/22/10
APP		

SIZE	CAGE CODE	DWG. NO.	REV
A	2W033	127-3243M2	B
SCALE: NONE		SOLIDWORKS	SHEET 1 OF 1

UNLESS OTHERWISE SPECIFIED:
INTERPRET DIM & TOL PER
ASME Y14.5M - 1994.
REMOVE BURRS.
COUNTERSINK INTERNAL THDS
90° TO MAJOR DIA.
CHAM EXT THDS 45° TO MINOR DIA.
THD LENGTHS AND DEPTHS ARE FOR
MIN FULL THDS.
THDS PER MIL-S-7742.
DIMENSIONS APPLY AFTER FINISHING.

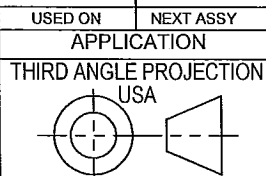
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES.
DIMENSIONS IN BRACKETS []
ARE IN MILLIMETERS
TOLERANCES ARE:
INCHES METRIC ANGLES
.XX ± .03 .X ± 0.8 ± 1°
.XXX ± .010 .XX ± 0.25

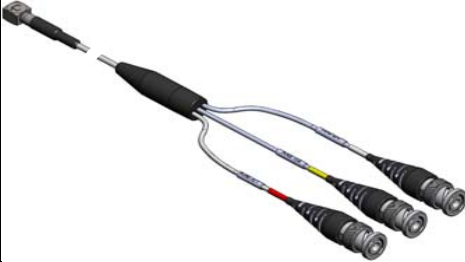
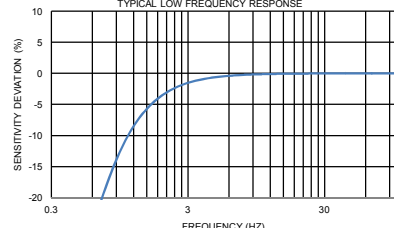
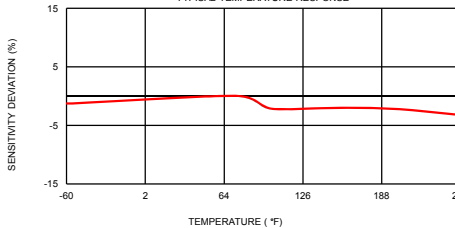
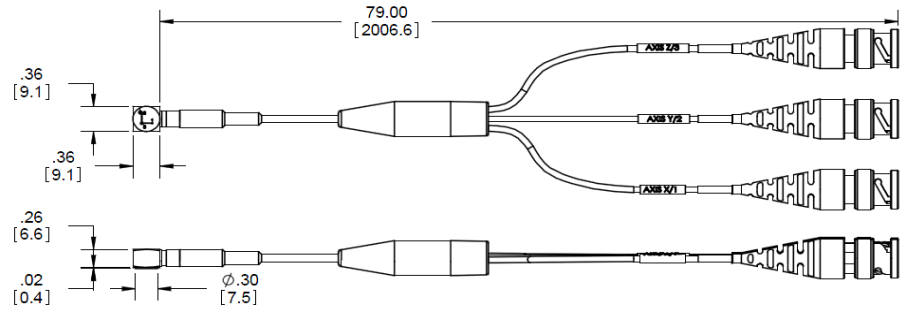

MATERIAL

FINISH

DO NOT SCALE DRAWING

ALL MACHINED SURFACES.
TOTAL RUNOUT WITHIN .005.
BREAK SHARP EDGES .005 TO .010.
MACHINED FILLET RADII .005 TO .015.
WELDING SYMBOLS PER AWS A2.4.
ABBREVIATIONS PER MIL-STD-12.



Model Number 3243M2		PERFORMANCE SPECIFICATION				DOC NO PS3243M2									
		TRIAXIAL IEPE PLANAR SHEAR ACCELEROMETER				REV B, ECN 11438, 10/30/14									
		<ul style="list-style-type: none">• MINIATURE SIZE• HERMETICALLY SEALED• EXCELLENT LINEARITY													
		This family also includes:													
		Model		Sensitivity (mV/g)		Range F.S ± 5 Volts (G's)		Max Vibration/Shock(± Gpeak)		Resonant Frequency (kHz)					
		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 100Hz, 1 Grms per ISA RP 37.2													
		[2] Measure using zero-based 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													
PHYSICAL		ENGLISH		SI											
Weight, (Less Cable)		0.09		oz								2.5		grams	
Cable, integral		3 BNC Connectors										3 BNC Connectors			
Mounting Provision		Adhesive										Adhesive			
Material : Housing/Connector		Titanium										Titanium			
Element Style		Ceramic				Ceramic									
Material Type		Planar Shear				Planar Shear									
PERFORMANCE															
Sensitivity, - 10/ + 15% [1]		10		mV/g								1.02		mV/m/s ²	
Range F.S for ± 5 Volts Output		±500		G's								±4905		m/s ²	
Frequency Range, -5 / +15 %		0.8 to 10000		Hz								0.8 to 10000		Hz	
Resonant Frequency, Nominal		40		kHz								40		kHz	
Equivalent Electrical Noise Floor		0.007		Grms		0.069		m/s ² rms							
Linearity [2]		± 1%		% F.S.		± 1%		% F.S.							
Maximum Transverse sensitivity		5		%		5		%							
ENVIRONMENTAL															
Maximum Vibration		±600		Gpeak								±5886		m/s ² peak	
Maximum Shock		±5000		Gpeak								±49050		m/s ² peak	
Temperature Range		-60 to +250		°F								-51 to +121		°C	
Seal		Hermetic										Hermetic			
ELECTRICAL															
Supply Current Range [3]		2 to 20		mA								2 to 20		mA	
Compliance Voltage Range		+ 18 to +30		Volts								+18 to +30		Volts	
Output Impedence, Typ		100		Ω								100		Ω	
Bias Voltage		+7 to +9		VDC								+7 to +9		VDC	
Discharge Time Constant, Nom		0.3 to 1.2		Sec		0.3 to 1.2		Sec							
Output Signal Polarity for Acceleration Towards Top		Positive				Positive									
Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3243M2 for more information.															
															
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