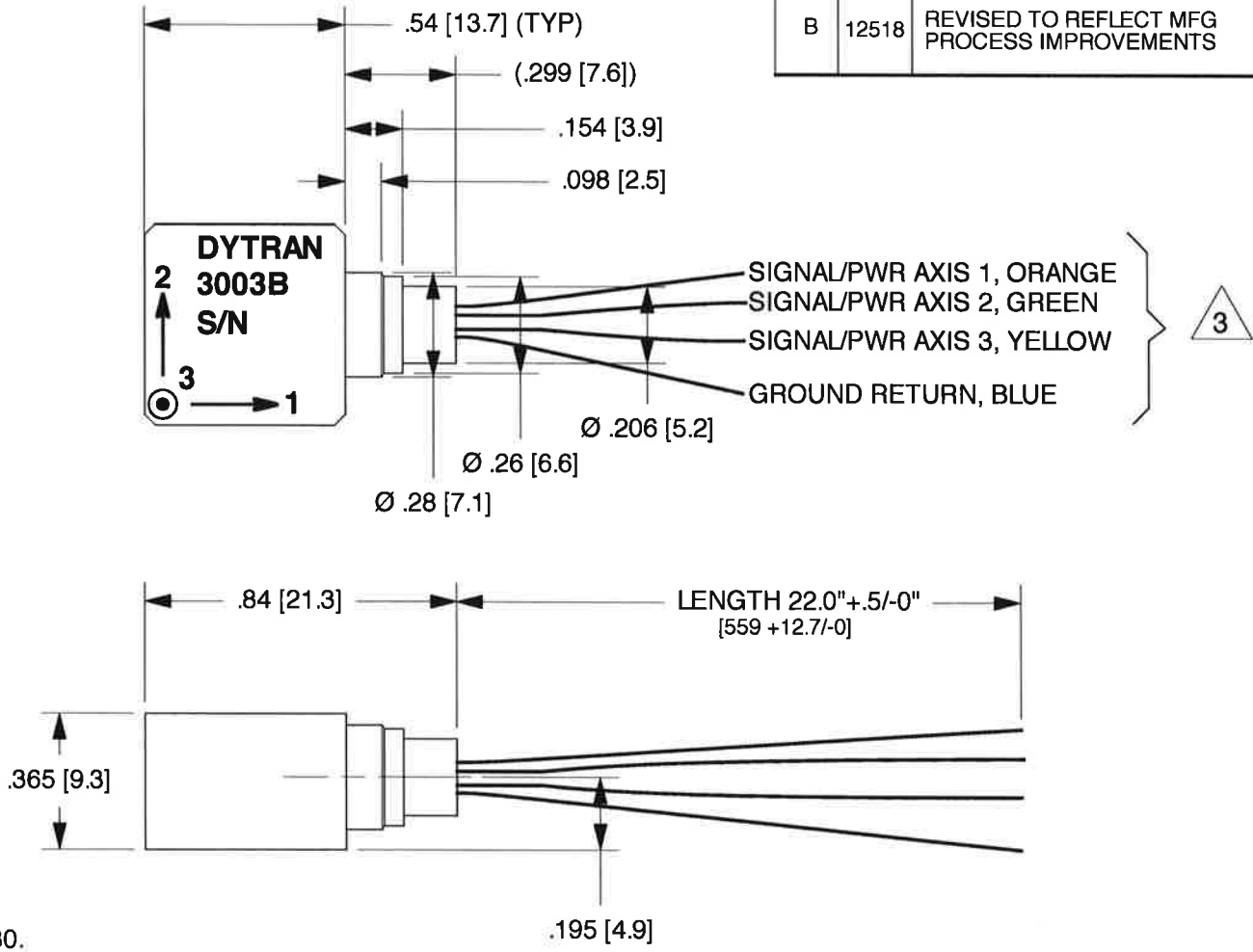


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	9105	REVISED AND REDRAWN	RA, 09/10/12	LN	AS
B	12518	REVISED TO REFLECT MFG PROCESS IMPROVEMENTS	EM, 02/22/16	MH	RT



3 WIRE SIZE IS AWG 30.

2. HOUSING MATERIAL: TITANIUM ALLOY.

1. WEIGHT: 6 GRAMS.

NOTES: UNLESS OTHERWISE SPECIFIED

3003M6	USED ON	NEXT ASSY
APPLICATION		
THIRD ANGLE PROJECTION USA		

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

63  
 ALL MACHINED SURFACES  
 TOTAL RUNOUT WITHIN .005 BREAK  
 SHARP EDGES .005 TO .010 MACHINE  
 FILLET RADI .005 TO .015 WELDING  
 SYMBOLS PER AWS A2.4  
 ABBREVIATIONS PER MIL-STD-12

CONTRACT NO		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. DIMENSION IN BRACKETS [ ] ARE IN MILLIMETERS. TOLERANCES ARE:		
INCHES	METRIC	ANGLES
.XX ± .03	X ± 0.8	± 1°
.XXX ± .010	.XX ± 0.25	
FINISH		
DO NOT SCALE DRAWING		

		<b>MASTER ONLY IF IN RED</b>		CHATSWORTH, CA.	
SCALE 2X	DESIGN NC	DATE 10/03/06			
DRAWN NC	DATE 10/03/06	PART NO.			
CHECKED RA	DATE 01/04/06	MAT'L			REV B
APPROVED NC	DATE 01/04/06	NEXT ASSEMBLY		USED ON	3003B
TITLE <b>OUTLINE/INSTALLATION DRAWING, MODEL 3003B</b>				DWG NO. <b>127-3003B</b>	
				SHEET 1 OF 1	

Model Number  
3003B

## PERFORMANCE SPECIFICATIONS

DOC NO  
PS3003B

### IEPE ACCELEROMETER

REV A, ECN 11869, 04/01/15



- 4 WIRE INTEGRAL CABLE
- LOW BIAS VOLTAGE
- EXCELLENT LINEARITY
- HERMETICALLY SEALED

#### This family also includes:

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

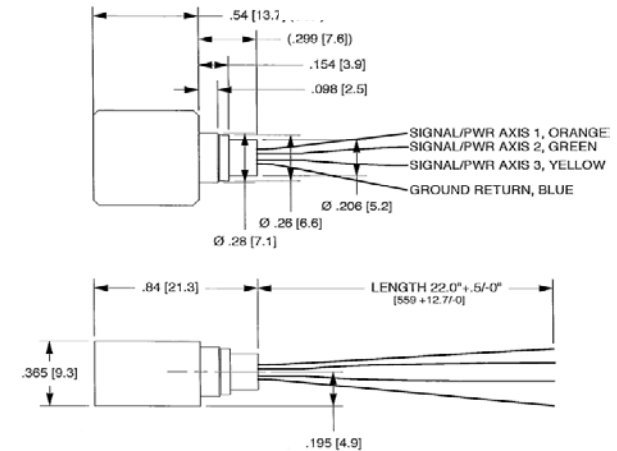
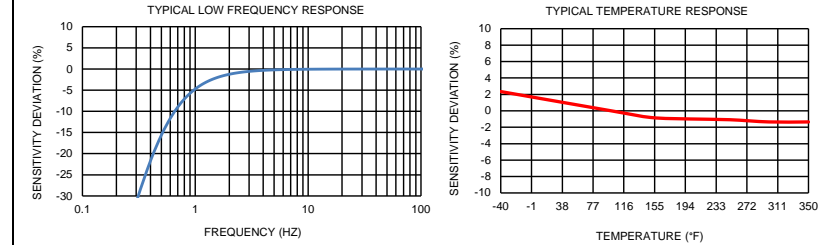
Refer to the performance specifications of the products in this family for detailed description

#### Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

#### Notes:

- [1] Measured at 100Hz, 1 grms per ISA RP 37.2.
- [2] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [3] Connection wires from connector are epoxy sealed.
- [4] Do not apply power to this system without current limiting, 4 mA MAX. To do so will destroy the IC charge amplifier.
- [5] None, case is connected to Sig Return.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3003B for more information.

#### PHYSICAL

Weight  
Connector, Type  
Mounting  
Material, Housing/Connector  
Sensing Element

ENGLISH		SI	
0.21	oz	6.0	grams
4 Wire Integral Cable		4 Wire Integral Cable	
Adhesive Mount		Adhesive Mount	
Titanium Alloy		Titanium Alloy	
Quartz		Quartz	

#### PERFORMANCE

Sensitivity, ±10% [1]  
Range, Full Scale (each axis)  
Frequency Response, ± 3dB  
Resonant Frequency  
Equivalent Electrical Noise  
Linearity [2]  
Maximum Transverse sensitivity  
Full Scale Voltage Output

2.0	mV/g	0.20	mV/m/s <sup>2</sup>
±500	g	±4905	m/s <sup>2</sup>
2 to 5000	Hz	2 to 5000	Hz
>30	kHz	>30	kHz
0.007	grms	0.07	m/s <sup>2</sup> rms
±1	% F.S.	±1	% F.S.
5	%	5	%
±1	Volts	±1	Volts

#### ENVIRONMENTAL

Maximum Vibration  
Maximum Shock  
Temperature Range  
Seal [3]  
Base Strain Sensitivity @ 250µε

±600	gpeak	±5886	m/s <sup>2</sup> peak
±5000	gpeak	±49050	m/s <sup>2</sup> peak
-40 to +347	°F	-40 to +175	°C
Hermetic		Hermetic	
< 0.014	g/µε	< 0.14	m/s <sup>2</sup> /µε

#### ELECTRICAL

Supply Current (each axis) [4]  
Compliance Voltage, Nom (each axis)  
Output Impedance, Typ.  
Bias Voltage  
Discharge Time Constant  
Ground Isolation

4.0	mA	4.0	mA
+4.5	Volts	+4.5	Volts
100	Ω	100	Ω
+1.7 to +3.4	VDC	+1.7 to +3.4	VDC
0.25 to 0.75	Sec	0.25 to 0.75	Sec
[5]		[5]	



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