

Model Number DOC NO PERFORMANCE SPECIFICATIONS 3143D1 PS3143D1 IEPE TRIAXIAL ACCELEROMETER REV A, ECN 11933 , 06/10/15



HERMETICALLY SEALED
 EXCELLENT LINEARITY

PHYSICAL	
Weight, Max.	
Connector [1]	Type
Mounting Provision	Thru Hole
Material, Housing/Connector	
Sensing Element	
Element Style	

PERFORMANCE

Sensitivity, ±5% [2] Range for ± 5 Volts Output Frequency Response, ±5% Resonant Frequency Broad Band Resolution Linearity [3] Maximum Transverse sensitivity Strain Sensitivity @ 250με

ENVIRONMENTAL Maximum Vibration

Maximum Shock Operating Temperature Range Survival Temperature Range Seal

ELECTRICAL

Supply Current Range [4] Compliance Voltage Range Output Impedence,Typ Bias Voltage Discharge Time Constant Electrical Isolation

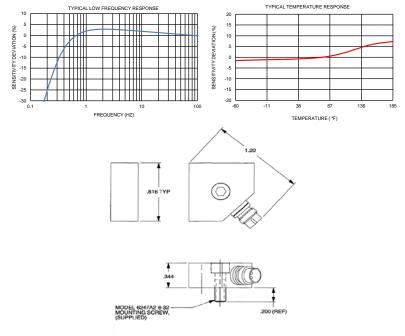
ENGLISH		SI		
			_	
0.49	OZ	14	grams	
4-Pin		4-Pin	I	
6-32 Mounting Screw		6-32 Mounting Screw	1	
Titanium		Titanium		
Ceramic		Ceramic		
Planar Shear		Planar Shear]	
100	mV/g	10	mV/m/s ²	
±50	g peak	±490.5	m/s⁴	
0.5 to 3000	Hz	0.5 to 3000	Hz	
> 25	kHz	> 25	kHz	
0.0007	g rms	0.007	m/s⁴ rms	
± 1	% F.S.	± 1	% F.S.	
5	%	5	%	
0.012	g/με	0.12	m/s²/με	
±600	g peak	±5886	m/s² peak	
±1500	g peak	±14715	m/s² peak	
-60 to 185	°F	-51 to 85	°C	
-100 to 225	°F	-73 to 107	°C	
Hermetic		Hermetic		
	='		=	
2 to 20	mA	2 to 20	mA	
+18 to +30	Volts	+18 to +30	Volts	
100	Ω	100	Ω	
+11 to +12.5	VDC	+11 to +12.5	VDC	
0.8 to 2.0	Sec	0.8 to 2.0	Sec	
10	GΩ.min	10	GΩ.min	

This family also includes:							
Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)			
3143D	10 mV/g	0.5 to 3000	0.8 to 2.0	-60 to 185			
3143D2	50 mV/g	0.5 to 3000	0.8 to 2.0	-60 to 185			

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

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting screw Model 6247A2

- [1] Radially mounted 4-pin connector. Mates with Dytran cable Model 6811A.
- [2] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the amplifier.
- [5] In the interest of constant product improvement, we reserve the right to change specifications without notice.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3143D1 for more information.

