

Model Number DOC NO PERFORMANCE SPECIFICATIONS 3143D13-XX PS3143D13-XX IEPE TRIAXIAL ACCELEROMETER REV B, ECN 15662, 03/31/20



• MECHANICALLY AND ELECTRICALLY FILTERED

oz

- INTEGRAL CABLE

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• LOW OUTGASSING

PHYSICAL

Weight, Max. (Less cable) 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, ±3dB Resonant Frequency Broad Band Resolution Linearity [3] Maximum Transverse Sensitivity Strain Sensitivity @ 250µε

ENVIRONMENTAL Maximum Vibration

Maximum Shock Operating Temperature Range Seal

ELECTRICAL

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

ENGLISH	
2.1	
4 - Pin	
6-32 Mounting Screw	
300 Series S.S.	
Quartz	
Planar Shear	

1.0	mV/g	
±5000	g peak	
0.5 to 10000	Hz	
> 25	kHz	
0.070	g rms	
±1	% F.S.	
6	%	
0.012	g/με	

6000	g peak
7000	g peak
-60 to 250	°F
Hermetic	

2 to 20	mA
+18 to +30	Volts
100	Ω
+7.0 to +11.5	VDC
0.5 to 2.0	Sec
10	GΩ,min
	•

2 to 20
+18 to +30
100
+7.0 to +11.5
0.5 to 2.0
10

his f	amily	also	includes:	
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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:

grams

m/s²

Hz

kHz

°C

Ω

Sec

SI

4 - Pin

6-32 Mounting Screw

300 Series S.S.

Quartz

Planar Shear

0.1

±49050

0.5 to 10000

> 25

0.69

± 1

6

0.12

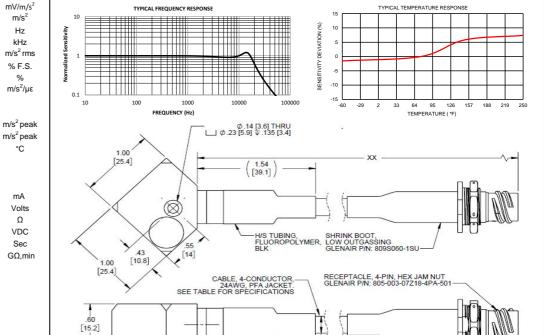
58860

68670

-51 to 121

Hermetic

- [1] Glenair P/N: 805-003-07Z18-4PA-501. Mates with Glenair P/N: 805-001-16Z18-4SA and 805-002-16Z18-4SA
- [2] Measured at 100Hz, 10 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. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Ø.25 [6.2]

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com

Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3143D13-XX for more information

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