

 Model Number
 PERFORMANCE SPECIFICATION
 DOC NO

 3093D6
 PS3093D6

 Accelerometer, Triaxial, IEPE
 REV G, ECN 15637, 03/17/20



- CASE ISOLATED
- HERMETICALLY SEALED
- STUD MOUNTED

				_		
		ENGLISH			SI	
PHYSICAL			_			
Weight, Max.		0.49	oz		14.0	grams
Mounting Stud Mount		10-32 UNF-2A	screw		10-32 UNF-2A	screw
Connector [1]	Type	4-pin, 1/4-28			4-pin, 1/4-28	
	Material	Titanium			Titanium	
Housing	Material	Titanium		L	Titanium	
Sensing Element	Isolation Material	Case Isolated Ceramic		-	Case Isolated Ceramic	
Conomy Liement	Mode	Shear		ţ	Shear	
PERFORMANCE						
Sensitivity, +/-5% [2]		50	mV/g		5.1	mV/m/s^2
Acceleration Range, ±		100	Gpeak	-	981	m/s^2 peak
Frequency Range, ±5%		.6-5000	Hz	L	.6-5000	Hz
Resonance Frequency		> 30	kHz	L	> 30	kHz
Linearity [3]		1	%F.S.	L	1	%F.S.
Transverse Sensitivity Max.		6	%	L	6	%
Noise floor		0.0014	Grms	L	0.01	m/s^2 rms
Spectral Noise	1Hz	400	μGrms/sqr(Hz)	-	3924	μm/s^2 rms/sqr(Hz)
	10Hz	280	μGrms/sqr(Hz)	L	2746.8	μm/s^2 rms/sqr(Hz)
	100Hz	180	μGrms/sqr(Hz)	L	1765.8	μm/s^2 rms/sqr(Hz)
	1000Hz	100	μGrms/sqr(Hz)	L	981	μm/s^2 rms/sqr(Hz)
	10000Hz	40	μGrms/sqr(Hz)	L	392.4	µm/s^2 rms/sqr(Hz)
ELECTRICAL			•			•
Supply Current Range [4]		2 to 20	mA		2 to 20	mA
Compliance Voltage Range		+18 to +30	VDC	L	+18 to +30	VDC
Output Impedance, Typ.		100	Ω		100	Ω
Output Bias Voltage		+11 to +13	VDC		+11 to +13	VDC
Discharge Time Constant		0.7 to 1.7	sec	L	0.7 to 1.7	sec
Electrical Isolation, Min.		10	GΩ	L	10	GΩ
ENVIRONMENTAL						
Shock Max., ±		1000	g pk	Γ	9810	m/s^2
Vibration Max., ±		120	g pk		1177	m/s^2
Operating Temperature		-60 to +225	°F		-51 to +107	°C
Seal		Hermetic			Hermetic	
Magnetic Sensitivity at 100 Gauss		0.00007	g/Gauss		0.0007	m/s^2/Gauss
Base Strain Sensitivity		0.05	g/με		0.4905	m/s^2/με

This family also i	ncludes:
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Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp (°F)	TC
3093D1	1	5000	0.07	-60 to +250	0.7 to 1.7
3093D2	5	1000	0.014	-60 to +250	0.7 to 1.7
3093D3	10	500	0.007	-60 to +250	0.7 to 1.7
3093D4	20	250	0.0035	-60 to +250	0.7 to 1.7
3093D5	25	200	0.0028	-60 to +235	0.7 to 1.7
3093D7	100	50	0.0007	-60 to +225	0.7 to 1.7

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

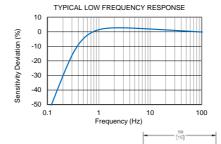
Supplied Accessories:

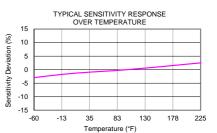
- 1) Model 6200 Mounting Stud Supplied, Qty: 1
- 2) Accredited Calibration Certificate (ISO 17025)

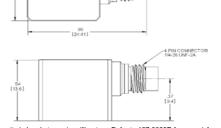
Notes:

- [1] Glass to Metal seal connector. Mates with Dytran cable Model 6811AXX (XX=length in feet)
- [2] Measured at 100 Hz, 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 device without current limiting, 20mA Max. To do so will destroy the integral IC 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.







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3093D for more information.

