

 Model Number
 PERFORMANCE SPECIFICATION
 DOC NO

 3093D3
 PS3093D3

 Accelerometer, Triaxial, IEPE
 REV F, ECN 15119, 06/07/19



- CASE ISOLATED
- HERMETICALLY SEALED
- STUD MOUNTED

		ENGLISH		SI	
DUNGIO 41		LINC	BLISH		31
PHYSICAL		F	Ī		1
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		Titanium	
Consing Floment	Isolation	Case Isolated		Case Isolated	
Sensing Element	Material Mode	Ceramic Shear		Ceramic Shear	
					ı
PERFORMANCE					1
Sensitivity, +/-5% [2] Acceleration Range, ±		10	mV/g	1.0 4905	mV/m/s^2
•		500	Gpeak		m/s^2 peak
Frequency Range, ±5%		.6-5000	Hz	.6-5000	Hz
Resonance Frequency		> 30	kHz	> 30	kHz
Linearity [3]		1	%F.S.	1	%F.S.
Transverse Sensitivity Max.		6	%	6	%
Noise floor		0.007	Grms	0.07	m/s^2 rms
Spectral Noise	1Hz	2000	μGrms/sqr(Hz)	19620	μm/s^2 rms/sqr(Hz)
	10Hz	1400	μGrms/sqr(Hz)	13734	μm/s^2 rms/sqr(Hz)
	100Hz	900	μGrms/sqr(Hz)	8829	μm/s^2 rms/sqr(Hz)
	1000Hz	500	μGrms/sqr(Hz)	4905	μm/s^2 rms/sqr(Hz)
	10000Hz	200	μGrms/sqr(Hz)	1962	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	+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	0.7 to 1.7	sec
Electrical Isolation, Min.		10	GΩ	10	GΩ
ENVIRONMENTAL					
Shock Max., ±		1000	g pk	9810	m/s^2
Vibration Max., ±		600	g pk	5886	m/s^2
Operating Temperature		-60 to +250	°F	-51 to +121	°C
Seal		Hermetic	·	Hermetic	Ĭ
Magnetic Sensitivity at 100 Ga	22116	0.00007	g/Gauss	0.0007	m/s^2/Gauss
•			•		
Base Strain Sensitivity		0.05	g/με	0.4905	m/s^2/με

his	family	also	includes:	

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
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
3093D6	50	100	0.0014	-60 to +225	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

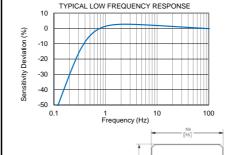
Supplied Accessories:

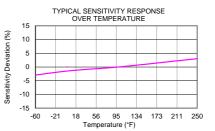
- 1) Model 6200 Mounting Stud Supplied, Qty: 1
- 2) Accredited Calibration Certificate (ISO 17025)

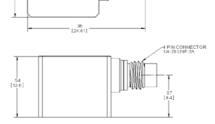
Notes

- [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.

