

 Model Number
 DOC NO

 3273A1T
 PERFORMANCE SPECIFICATION
 PS3273A1T

 Accelerometer, Triaxial, IEPE
 REV I., ECN 15711, 04/21/20



- ULTRA LOW FREQUENCY RESPONSE
- ULTRA LOW NOISE LEVEL
- WEIGHT ONLY 3 GRAMS
- TEDS FEATURE

		ENGLISH		SI	
PHYSICAL					_
Weight		0.1	oz	3.0	grams
Mounting		Adhesive		Adhesive	
Connector [1]	Type	4-pin		4-pin	
	Material	Titanium		Titanium	
Housing	Material	Titanium		Titanium	
	Isolation	Case ground		Case ground	
Sensing Element	Material	Ceramic		Ceramic	
	Mode	Shear		Shear	
PERFORMANCE					
Sensitivity, ±10% [2]		10	mV/g	1.02	mV/m/s^2
Acceleration Range		500	Gpeak	4905	m/s^2 peak
Frequency Range, ±15%		.3-10,000	Gpeak Hz	.3-10,000	Hz
		.5 - 3000	Hz		Hz
Frequency Range, ± 5%		.5 - 3000	HZ kHz	.5 - 3000 >24	HZ kHz
Resonance Frequency		2.3 to 3000		2.3 to 3000	KHZ Hz
Phase Response, ± 5°			Hz		
Linearity [3]		1	%F.S.	1	%F.S.
Transverse Sensitivity Max		6	%	6	%
Noise floor, Max		0.003	Grms	0.029	m/s^2 rms
Spectral Noise	1Hz	629	μGrms/sqr(Hz)	6166	μm/s^2 rms/sqr(Hz)
	10Hz	110	μGrms/sqr(Hz)	1074	μm/s^2 rms/sqr(Hz)
	100Hz	67	μGrms/sqr(Hz)	657	μm/s^2 rms/sqr(Hz)
	1000Hz	31	μGrms/sqr(Hz)	304	μm/s^2 rms/sqr(Hz)
ELECTRICAL	10000Hz	16	μGrms/sqr(Hz)	157	μm/s^2 rms/sqr(Hz)
Supply Current Range [4]		2 to 20	mA	2 to 20	mA
		+18 to +30	VDC	+18 to +30	VDC
Compliance Voltage Range			νΔΟ	100	νος
Output Impedance, Typ.		100 11 - 13	VDC	11 - 13	VDC
Output Bias Voltage		0.5 to 1.5	_		1
Discharge Time Constant.		0.5 to 1.5	sec	0.5 to 1.5	sec
ENVIRONMENTAL			i		
Shock Max		5000	g pk	49050	m/s^2
Vibration Max		3000	g pk	29430	m/s^2
Operating Temperature		-60 to +225	°F	-51 to +107	°C
TEDS Operation Temperature		-40 to +185	°F	-40 to +85	°C
Seal		Hermetic		Hermetic	
Magnetic Sensitivity at 100 Gauss		0.000013	g/Gauss	0.00013	m/s^2/Gauss
Base Strain Sensitivity		0.06	g/με	0.59	m/s^2/με
TEDS feature		IEEE 1451.4		IEEE 1451.4	1

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Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC			
3273A2T	100	50	0.00095	-60 to +165	0.5 - 1.5			
3273A4T	50	100	0.002	-60 to +185	0.5 - 1.5			

Please, refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Glass to metal Seal connector. Mates with Dytran cable model 6811AXX or 6824AXX (XX=length in feet)
- [2] Measured at 100 Hz, 1 Grms per ISA RP 37.2
- [3] Linearity is % of specified full scale (or any less full-scale range), zero-based best fit straight line method.
- [4] Do not apply power to 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.



