

 Model Number 3273A2
 PERFORMANCE SPECIFICATION
 DOC NO PS3273A2

 Accelerometer, Triaxial, IEPE
 REV M, ECN 13591, 07/31/17



- ULTRA LOW FREQUENCY RESPONSE
- ULTRA LOW NOISE LEVEL
- WEIGHT ONLY 2.7 GRAMS

		ENGLISH		SI	
PHYSICAL					
Weight		0.096	oz	2.7	grams
Mounting		Adhesive		Adhesive	1
Connector [1]	Type	4-pin		4-pin	
	Material	Ti-6 AL-4V		Ti-6 AL-4V	
Housing	Material	Ti-6 AL-4V		Ti-6 AL-4V	
	Isolation	Case ground		Case ground	
Sensing Element	Material	Ceramic		Ceramic	
	Mode	Shear		Shear	]
PERFORMANCE					
Sensitivity, ±10%[2]		100	mV/g	10.19	mV/m/s^2
Acceleration Range		+/-50	Gpeak	+/-491	m/s^2 peak
Frequency Range, ±5%		.7 - 3000	Hz	.7 - 3000	Hz
Frequency Range, ±15%		.42 - 10,000	Hz	.42 - 10,000	Hz
Phase Response, ±5°		4.0 to 3000	Hz	4.0 to 3000	Hz
Resonance Frequency		>24	kHz	>24	kHz
Linearity [3]		1	%F.S.	1	%F.S.
Transverse Sensitivity Max		6	%	6	%
Noise floor, Max		0.00095	Grms	0.009	m/s^2 rms
Spectral Noise	1Hz	207	μGrms/sqr(Hz)	2031	µm/s^2 rms/sqr(Hz)
	10Hz	52	μGrms/sqr(Hz)	510	μm/s^2 rms/sqr(Hz)
	100Hz	32	μGrms/sqr(Hz)	314	µm/s^2 rms/sqr(Hz)
	1000Hz	11	μGrms/sqr(Hz)	108	µm/s^2 rms/sqr(Hz)
ELECTRICAL	10000Hz	8	μGrms/sqr(Hz)	78	μm/s^2 rms/sqr(Hz)
Supply Current Range [4]		2 to 20	mA	2 to 20	<b>T</b> mA
Compliance Voltage Range		+18 to +30	VDC	+18 to +30	VDC
Output Impedance, Typ.		100	0	100	0
Output Bias Voltage		+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant		0.5 to 1.5	sec	0.5 to 1.5	sec
ENVIRONMENTAL					
Shock Max		5000	g pk	49050	m/s^2
Vibration Max		3000	g pk	29430	m/s^2
Operating Temperature		-60 to +165	°F	-51 to +74	°C
Seal		Hermetic	'	Hermetic	<b>⊣</b>
Magnetic Sensitivity at 100 G	auss	0.000013	g/Gauss	0.00013	m/s^2/Gauss
Base Strain Sensitivity		0.02	g/με	0.1962	m/s^2/με
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This	family	also	includes
11113	iuiiiii	uiso	IIICIUUCS

This family dies institutes.								
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC			
3273A1	10	500	0.003	-60 to +225	0.5 - 1.5			
3273A4	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, 5 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 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.





