
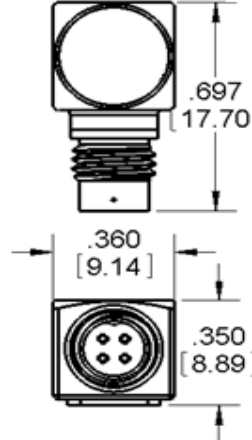
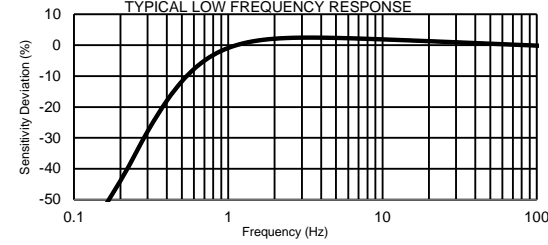
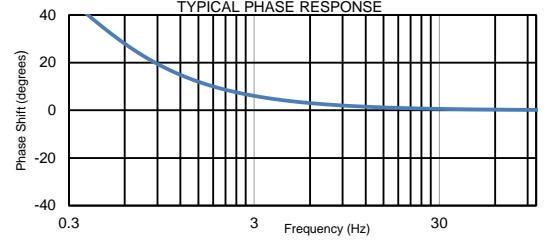
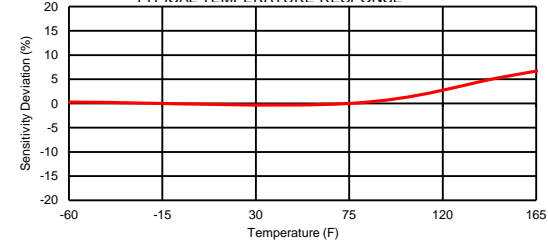



Model Number		PERFORMANCE SPECIFICATION				DOC NO																			
3273A2T						PS3273A2T																			
		Accelerometer, Triaxial, IEPE				REV J, ECN 15608, 02/27/20																			
		<ul style="list-style-type: none">• ULTRA LOW FREQUENCY RESPONSE• ULTRA LOW NOISE LEVEL• WEIGHT ONLY 3 GRAMS• TEDS FEATURE				This family also includes:																			
						<table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Range (Gpeak)</th><th>Resolution (Grms)</th><th>Oper. Temp(°F)</th><th>TC</th></tr><tr><td>3273A1T</td><td>10</td><td>500</td><td>0.003</td><td>-60 to +225</td><td>0.5 - 1.5</td></tr><tr><td>3273A4T</td><td>50</td><td>100</td><td>0.002</td><td>-60 to +185</td><td>0.5 - 1.5</td></tr></table>		Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC	3273A1T	10	500	0.003	-60 to +225	0.5 - 1.5	3273A4T	50	100	0.002	-60 to +185	0.5 - 1.5
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	TC																				
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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																			
PHYSICAL		ENGLISH		SI																					
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]		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/-10%		.42 - 10,000	Hz	.42 - 10,000	Hz																				
Resonance Frequency		>24	kHz	>24	kHz																				
Phase Response, ± 5°		4.0 to 3000	Hz	4.0 to 3000	Hz																				
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)																				
	10000Hz	8	μGrms/sqr(Hz)	78	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 - 13	VDC	11 - 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 +82	°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																				
TED feature		IEEE 1451.4		IEEE 1451.4																					
																									
																									
																									
																									
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3273AT for more information.																							



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