
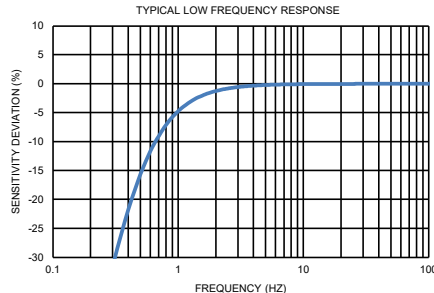
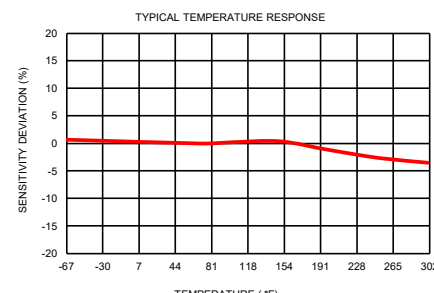
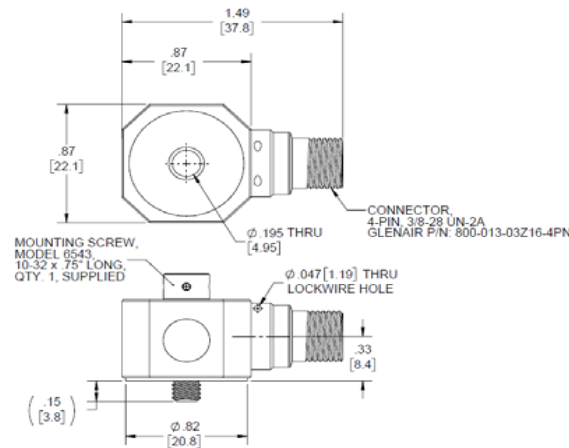



Model Number 3713A3T		PERFORMANCE SPECIFICATIONS				DOC NO PS3713A3T	
		Triaxial Accelerometer, IEPE				REV B, ECN 16541, 02/02/22	
		<ul style="list-style-type: none">• HERMETICALLY SEALED• CASE ISOLATED• TEDS FEATURE					
		ENGLISH		SI			
PHYSICAL							
Weight, Max.		1.8	oz	52	grams		
Mounting		ø.195 Thru Hole		ø4.95mm Thru Hole			
Connector [1]		4-Pin		4-Pin			
Material		300 Series S.S.		300 Series S.S.			
Sensing Element	Material	Quartz		Quartz			
	Mode	Shear		Shear			
PERFORMANCE							
Sensitivity [2], ±10%		5.0	mV/g	0.51	mV/m/s ²		
Acceleration Range		1,000	g pk	9810	m/s ² pk		
Frequency Range, (±5%)		1 to 3,000	Hz	1 to 3,000	Hz		
Frequency Range, (±10%)		0.6 to 4,000	Hz	0.6 to 4,000	Hz		
Frequency Range, (±3dB)		0.3 to 6,000	Hz	0.3 to 6,000	Hz		
Resonance Frequency		>30	kHz	>30	kHz		
Transverse Sensitivity		<6	%	<6	%		
Electrical Noise Floor, Max.		0.02	g RMS	0.20	m/s ² RMS		
Linearity [3]		± 1%	% F.S.	± 1%	% F.S.		
ELECTRICAL							
Compliance Voltage		+18 to +30	VDC	+18 to +30	VDC		
Current Range [4]		2 to 20	mA	2 to 20	mA		
Output Impedance, Typ.		100	Ω	100	Ω		
Output Bias Voltage		7.0 to 12.0	VDC	7.0 to 12.0	VDC		
Discharge Time Constant		0.5 to 2.0	sec	0.5 to 2.0	sec		
Ground Isolation		>1	GΩ	>1	GΩ		
TEDS		IEEE 1451.4		IEEE 1451.4			
Base Strain Sensitivity		0.003	g/με	0.03	m/s ² /με		
ENVIRONMENTAL							
Maximum Shock		2,000	g pk	19,620	m/s ² pk		
Operating Temperature		-320 to +302	°F	-195 to +150	°C		
TEDS Operating Temperature		-40 to +185	°F	-40 to +85	°C		
Seal		Hermetic		Hermetic			
		This family also includes:					
		Model	Sensitivity (mV/g)	Range (g pk)	Time Constant (Sec)	Operating Temp (°F)	
		3713A1T	1.0	5,000	0.8 to 2.0	-320 to +302	
		3713A2T	0.5	10,000	0.8 to 2.0	-320 to +302	
		3713A4T	10	500	0.3 to 2.0	-320 to +302	
		Refer to the performance specifications of the products in this family for detailed description					
		Supplied Accessories:					
		1) Accredited calibration certificate (ISO 17025)					
		2) Mounting screw, model 6543, 10-32 x .75" long, Qty. 1					
		Notes:					
		[1] Mates with Glenair connector 800-006-16-Z16-4SN. Dytran cable model 6380AXX					
		[2] Measured at 100Hz, per ISA RP 37.2.					
		[3] Measure using zero-based straight line method, % of F.S. or any lesser range.					
		[4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge 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 127-3713A1T for more information.					



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