

3713A3T	PERFORMANCE SPECIFICATIONS								DOC NO PS3713A3T
	Triaxial Accel								REV A, ECN 15001, 10/08/19
					This family also inc	ludes:	•		•
					Model	Sensitivity (mV/g)	Range (Gpeak)	Time Constant (Sec)	Operating Temp (°F)
			3713A1T	1.0	5.000	0.8 to 2.0	-67 to +302		
CASE ISOLATED				3713A2T	0.5	10,000	0.8 to 2.0	-67 to +302	
• TEDS FEATURE				3713A4T	10	500	0.3 to 2.0	-67 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, Qtv, 1				
Г	ENGLIS	SH	SI]		ong, ctyr r		
PHYSICAL	2.102.0		0.		Notes:				
Weight, Max.	1.8	OZ	52	grams	[1] Mates with Glenai	r connector 800-006-16-Z	216-4SN. Dvtran cable model 6	5380AXX	
Mounting	ø.195 Thru Hole		ø4.95mm Thru Hole	3	[2] Measured at 100Hz, 1 Grms per ISA RP 37.2.				
Connector [1]	4-Pin		4-Pin		[3] Measure using zero-based straight line method, % of F.S. or any lesser range.				
Material	300 Series S.S.		300 Series S.S.		[4] Do not apply power to this system without current limiting, 20 mA M			o do so will destroy the IC	charge amplifier.
Sensing Element Material	Quartz		Quartz		[5] In the interest of constant product improvement, we reserve the right to change specifications wit				out notice.
Mode	Shear		Shear		It is the customer's re	esponsibility to validate the	at a particular product with the	properties described in the	ne product specification
					is suitable for use in a	a particular application. Pa	arameters provided in datashe	ets and / or specifications	s may vary in different
PERFORMANCE				2	for each customer and	ormance may vary overur	's technical experts	including typical paramete	ers, must be validated
Sensitivity [2], ±10%	5.0	mV/g	0.51	mV/m/s ²					
Acceleration Range	1,000	Gpeak	9810	m/s ² peak	10			TYPICAL TEMPERATURE RI	ESPONSE
Frequency Range, (±5%)	1 to 3,000	Hz	1 to 3,000	Hz	5		15		
Frequency Range, (±10%)	0.6 to 4,000	Hz	0.6 to 4,000	Hz	€ 0				
Frequency Range, (±3dB)	0.3 to 6,000	Hz	0.3 to 6,000	Hz	ZOF5				
Resonance Frequency	>30	kHz	>30	kHz					
Flastrias Naise Flast Max	<0	~~ Crma	<0	$\frac{70}{m/c^2}$ rmc					
Lipearity [3]	+ 1%	% E S	0.20 + 1%	% E S					
	1 1 70	/81.5.	± 170	/01.5.	й -20				
ELECTRICAL	-25		-15						
Compliance Voltage	+18 to +30	VDC	+18 to +30	VDC	-30	1 10		-30 7 44 81 118	154 191 228 265 302
Current Range [4]	2 to 20	mA	2 to 20	mA		FREQUENCY (HZ)		TEMPERATURE (*F	1
Output Impedance. Tvp.	100	Ω	100	Ω		-	1.49		
Output Bias Voltage	7.0 to 12.0	VDC	7.0 to 12.0	VDC			[37.6] 97		
Discharge Time Constant	0.5 to 2.0	sec	0.5 to 2.0	sec		-	[22.1]		
Ground Isolation	>1	GΩ	>1	GΩ					
TEDS	IEEE 1451.4		IEEE 1451.4						
Base Strain Sensitivity	0.003	g/µɛ	0.03	m/s²/με		.87 [22.1]			
ENVIRONMENTAL									
Maximum Shock	2,000	Gpeak	19,620	m/s ²		<u> </u>	Ø.195 THRU GL	IN, 3/8-28 UN-2A ENAIR P/N: 800-013-03Z16-4PN	
Maximum Vibration	1,200	Gpeak	11,772	m/s ²	MODEL 6543, 10.32 x 75" LONG				
Operating Temperature	-67 to +302	°F	-55 to +150	°C					
TEDS Operating Temperature	-40 to +185	°F	°F -40 to +85 °C						
Seal	Hermetic		Hermetic						
							d 82		
						-	[20.8]		



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