

 MODEL NUMBER 3333M4T
 PERFORMANCE SPECIFICATION
 DOC NO PS3333M4T

 Accelerometer, Triaxial, IEPE
 REV D, ECN 13537, 07/05/2017



- ULTRA LOW FREQUENCY RESPONSE
- ULTRA LOW NOISE LEVEL
- CASE ISOLATED
- HERMETICALLY SEALED
- TEDS FEATURE

		ENGLISH		SI	
PHYSICAL					
Weight, Max		0.14	oz	4.0	grams
Mounting		Adhesive		Adhesive	
Connector [1]	Type	4-pin		4-pin	
	Material	Ti-6 AL-4V		Ti-6 AL-4V	
Housing	Material	Ti-6 AL-4V	1	Ti-6 AL-4V	
Isolation Cup	Material	Anodized Aluminum		Anodized Aluminum	
Sensing Element	Material	Ceramic		Ceramic	
	Mode	Shear]	Shear	
PERFORMANCE					
Sensitivity, +15-10% [2]		1	mV/g	0.10	mV/m/s ²
Acceleration Range		+/-5000	Gpeak	+/-49050	m/s2 peak
Frequency Range, +15/-10%		.65-10,000	Hz	.65-10,000	Hz
Resonance Frequency		>24	kHz	>24	kHz
Linearity [3]		1	%F.S.	1	%F.S.
Transverse Sensitivity Max		6	%	6	%
Noise floor		0.03	Grms	0.294	m/s ² rms
Spectral Noise	1Hz	62900	μGrms/sqr(Hz)	617049	µm/s2 rms/sqr(Hz)
	10Hz	1100	μGrms/sqr(Hz)	10791	µm/s2 rms/sqr(Hz)
	100Hz	670	μGrms/sqr(Hz)	6573	µm/s2 rms/sqr(Hz)
	1000Hz	310	μGrms/sqr(Hz)	3041	µm/s2 rms/sqr(Hz)
	10000Hz	160	μGrms/sqr(Hz)	1570	µm/s² rms/sqr(Hz)
ENVIRONMENTAL					
Shock Max		7000	g pk	68670	m/s ²
Vibration Max		6000	g pk	58860	m/s ²
Operating Temperature		-60 to +250	°F	-51 to +121	°C
TEDs Operating Temperature		-40 to +185	°F	-40 to +85	°C
Base Strain Sensitivity		0.06	g/με	0.59	m/s²/με
Seal		Hermetic]	Hermetic	
ELECTRICAL					
Supply Current Range [4]		2 to 20	l mA	2 to 20	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 - 1.5	sec	0.5 - 1.5	sec
Case Isolation		10	GΩ	10	GΩ
TEDS Feature		IEEE 1451.4	- C32	IEEE 1451.4	032
TEDO Feature		1222 1431.4	J	1222 1431.4	

Thie	family	alen	includes:

Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	Time Constant (sec)
3333M5T	5	1000	0.0072	-60 to +225	0.5 - 1.5
3333M6T	25	200	0.0024	-60 to +225	0.5 - 1.5

Refer to the performance specifications of the products in this family for detailed description.

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] 1/4-28 UNF-2A Connector. Mates with Dytran cable Model 6811AXX.
- [2] Measured at 100Hz, 5 Grms 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.



