

MODEL NUMBER DOC NO PERFORMANCE SPECIFICATION 3333M5T PS3333M5T Accelerometer, Triaxial, IEPE REV B, ECN 12879, 08/12/16



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

		ENGLISH		SI	
PHYSICAL				•	
Weight, Max		0.14	oz	4.0	grams
Mounting		Adhesive	†	Adhesive	Ü
Connector [1]	Type	4-pin	1	4-pin	
	Material	Ti-6 AL-4V	Ī	Ti-6 AL-4V	
Housing	Material	Ti-6 AL-4V	<u>[</u>	Ti-6 AL-4V	
Isolation Cup	Material	Anodized Aluminum	1	Anodized Aluminum	
Sensing Element	Material	Ceramic	<u> </u>	Ceramic	
	Mode	Shear	1	Shear	
PERFORMANCE					
Sensitivity, +15-10% [2]		5	mV/g	0.51	mV/m/s ²
Acceleration Range		+/-1000	Gpeak	+/- 9810	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		0.0072	Grms	0.071	m/s ² rms
Spectral Noise	1Hz	1258	μGrms/sqr(Hz)	12341	µm/s ² rms/sqr(Hz
	10Hz	220	μGrms/sqr(Hz)	2158	µm/s ² rms/sqr(Hz
	100Hz	134	μGrms/sqr(Hz)	1315	µm/s ² rms/sqr(Hz
	1000Hz	62	μGrms/sqr(Hz)	608	µm/s² rms/sqr(Hz
	10000Hz	32	μGrms/sqr(Hz)	314	µm/s ² rms/sqr(Hz
ENVIRONMENTAL					
Shock Max		5000	g pk	49050	m/s ²
Vibration Max		3000	g pk	29430	m/s ²
Operating Temperature		-60 to +225	°F	-51 to +107	m/s² °C °C
TEDs Operating Temperature		-40 to +185	°F	-40 to +85	
Base Strain Sensitivity		0.02	g/με	0.20	m/s²/με
Seal		Hermetic	1	Hermetic	_
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 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	I	IEEE 1451.4	

This family also includes:								
Model	Sensitivity (mV/g)	Range (Gpeak)	Resolution (Grms)	Oper. Temp(°F)	Time Constant (sec)			
3333M4T	1	5000	0.03	-60 to +250	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] Measured using zero-based straight line method, percentage 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.



