

MODEL NUMBER
3333M6T

PERFORMANCE SPECIFICATION

Accelerometer, Triaxial, IEPE

DOC NO
PS3333M6T

REV C, 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	
Connector [1]	Type	4-pin		4-pin	
	Material	Ti-6 AL-4V		Ti-6 AL-4V	
Housing	Material	Ti-6 AL-4V		Ti-6 AL-4V	
solation Cup	Material	Anodized Aluminum		Anodized Aluminum	
Sensing Element	Material	Ceramic		Ceramic	
	Mode	Shear		Shear	
PERFORMANCE					
Sensitivity, +15-10% [2]		25	mV/g	2.55	mV/m/s ²
Acceleration Range		+/- 200	Gpeak	+/- 1962	m/s ² 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		0.0024	Grms	0.024	m/s ² rms
Spectral Noise	1Hz	419	μGrms/sqr(Hz)	4110	µm/s2 rms/sqr(Hz
	10Hz	73	μGrms/sqr(Hz)	716	µm/s2 rms/sqr(Hz
	100Hz	45	μGrms/sqr(Hz)	441	µm/s2 rms/sqr(Hz
	1000Hz	21	μGrms/sqr(Hz)	206	µm/s2 rms/sqr(Hz
	10000Hz	11	μGrms/sqr(Hz)	108	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	°C
TEDs Operating Temperature		-40 to +185	°F	-40 to +85	°C
Base Strain Sensitivity		0.02	g/με	0.20	m/s²/με
Seal		Hermetic		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		IEEE 1451.4	

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
3333M5T	5	1000	0.0072	-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.



