

Model Number
3097A3T

PERFORMANCE SPECIFICATION

PRODUCTION

SINGLE AXIS IEPE PLANAR SHEAR ACCELEROMETERS

REV B, ECN 7213, 11/16/10



- MINIATURE SIZE
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

		ENGLISH		01	
PUNCIONI		ENGLISH		SI	
PHYSICAL		0.45			
Weight Size	0	0.15 .40 x .40 x .41	OZ	4.3	grams
Connector	Square x Height	.40 X .40 X .41 10-32 Coaxial	Inches	10.16 x 10.16 x 10.41 10-32 Coaxial	mm
	Туре	5-40 UNC-2B		5-40 UNC-2B	
Mounting Provision: Tapped Hole Material: Base, Cap and Connector		Titanium		Titanium	
Element Style	Material	Ceramic		Ceramic	
Element otyle	Type	Planar Shear		Planar Shear	
	71-				
PERFORMANCE					
Sensitivity, ±5% [1]		500	mV/g	51.02	mV/m/s ²
Range F.S for ± 5 Volts Output		±10	G's	±98	m/s ²
Frequency Range, ±5%		0.3 to 5000	Hz	0.3 to 5000	Hz
±15%		0.15 to 10,000	Hz	0.15 to 10,000	Hz
Resonant Frequency, Nominal		> 35	kHz	> 35	kHz
Equivalent Electrical Noise Floor		0.0002	Grms	0.002	m/s² rms
Linearity [2]		± 1%	% F.S.	± 1%	% F.S.
Phase Response (±5°)		3 to 3000	Hz	3 to 3000	Hz
Maximum Transverse sensitivity		5	%	5	%
Strain Sensitivity		0.002	g/μσ	0.02	m/s²/μσ
ENVIRONMENTAL					
Maximum Vibration		+200	Cnaak	±1962	m/s² peak
Maximum Shock		±200 ±5000	Gpeak	±1962 ±49050	m/s ² peak
Temperature Range		±5000 -60 to+150	Gpeak °F	±49050 -51 to+65	°C
Seal. Hermetic		Glass-to-metal/Welded	Г	Glass-to-metal/Welded	C
Codi, Fiermeno		Glass-to-illetai/Welded		Glass-to-metal/Welded	
ELECTRICAL					
Supply Current Range [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		+ 18 to +30	Volts	+18 to +30	Volts
Output Impedence,Typ		100	Ω	100	Ω
Bias Voltage		+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant, Nom		1.5 to 2.5	Sec	1.5 to 2.5	Sec
Output Signal Polarity for Acceleration Towards Top		Positive		Positive	

This family also includes:								
Model	Sensitivity (mV/g)	Range F.S ± 5 Volts (G's)	Max Vibration/Shock(± Gpeak)	Resonant Frequency (kHz)				
3097A1T	10	±500	600/5000	40				
3237A2T	100	±50	400/5000	40				

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

Supplied Accessories:

1) Accredited calibration certificate (ISO 17025)

2) Model 6580 mounting stud (5-40 to 5-40), qty 1

Notes

- [1] Measure at 100Hz, 1 Grms per ISA RP 37.2
- [2] Measure using zero-based straight line method, % of F.S. or any lesser range
- [3] Do not apply power to this system without current limting,20 mA MAX.To do so will destroy the IC charge amplifier



