

Model Number 3305A2	PERFORMANCE SPECIFICATION		
	SINGLE AXIS IEPE PLANAR SHEAR ACCELEROMETERS	REV A, ECN 6692, 11/19/10	



- MINIATURE SIZE
- HERMETICALLY SEALED
- EXCELLENT LINEARITY

	ENGLISH			SI	
PHYSICAL			Ī		
Weight		0.13	oz	3.7	grams
Size	WxHxL	.40 x .32 x .70	Inches	10 x 8.1x 17.8	mm
Connector	Туре	10-32 Coaxial		10-32 Coaxial	
Mounting Provision		Adhesive		Adhesive	
Material : Base, Cap and	Connector	Titanium		Titanium	
Element Style	Material	Ceramic		Ceramic	
	Туре	Planar Shear		Planar Shear	
PERFORMANCE					
Sensitivity, ±5% [1]		100	mV/g	10.20	mV/m/s ²
Range F.S for ± 5 Volts O	utput	±50	G's	±490	m/s ²
Frequency Response, ±5°	%	0.3 to 5000	Hz	0.3 to 5000	Hz
±15	5%	0.15 to 10,000	Hz	0.15 to 10,000	Hz
Resonant Frequency		> 35	kHz	> 35	kHz
Equivalent Electrical Nois	e Floor	0.0004	Grms	0.004	m/s2 rms
Linearity [2]		± 1%	% F.S.	± 1%	% F.S.
Phase Response (±5°)		5 to 3000	Hz	5 to 3000	Hz
Maximum Transverse sen	sitivity	5	%	5	%
Strain Sensitivity		0.04	g/μσ	0.39	$m/s^2/\mu\sigma$
ENVIRONMENTAL					
Maximum Vibration		±400	Gpeak	±3924	m/s² peak
Maximum Shock		±5000	Gpeak	±49050	m/s ² peak
Temperature Range		-60 to+180	°F	-51 to+82	°C
Seal, Hermetic		Glass-to-metal/Welded		Glass-to-metal/Welded	
ELECTRICAL					
Supply Current Range [3]		2 to 20	mA	2 to 20	mA
Compliance Voltage Rang	је	+ 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
í			1	-	

1.5 to 2.5

Positive

Sec

1.5 to 2.5

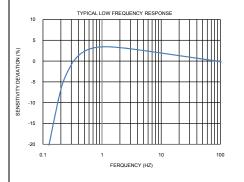
Positive

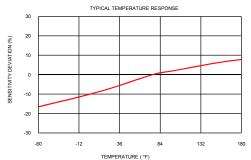
This family also includes:								
Model	Sensitivity (mV/g)	Range F.S ± 5 Volts (G's)	Max Vibration/Shock(± Gpeak)	Resonant Frequency (kHz)				
3305A1	10	±500	600/5000	> 35				
3305A3	500	±10	200/5000	> 35				

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

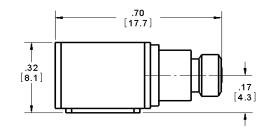
<u>Supplied Accessories:</u>
1) Accredited calibration certificate (ISO 17025)

- [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
- [4] In the interest of constant product improvement, we reserve the right to change the specification without notice









Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3305A for more information.



Output Signal Polarity for Acceleration Towards Top

Discharge Time Constant

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