

Model Number 3191A1 PERFORMANCE SPECIFICATIONS PERFORMANCE SPECIFICATIONS DOC NO PS3191A1 IEPE SINGLE AXIS ACCELEROMETER REV E, ECN 14275, 08/07/18



- HERMETICALLY SEALED
- HIGH SENSITIVITY

	ENGLISH		SI	
		i		
		OZ		grams
Type				
	,		,	
	CERAMIC			
	ANNULAR SHEAR		ANNULAR SHEAR	
	10	V/g	1	V/m/s ²
	0.5	g peak	5	m/s ²
	0.08 to 1000	Hz	0.08 to 1000	Hz
	0.065 to 1500	Hz	0.065 to 1500	Hz
	0.045 to 3000	Hz	0.045 to 3000	Hz
	> 8	kHz	> 8	kHz
Linearity [2]		% F.S.	± 2	% F.S.
Maximum Transverse sensitivity		%	5	%
	0.001	g/με	0.01	m/s²/με
	0.07	%/°F	0.14	%/°C
	3.0E-06	g rms	2.9E-05	m/s ² rms
1Hz	3.1E-07	grms/√(Hz)	3.0E-06	m/s2 rms/v(Hz)
10Hz	1.5E-07	grms/v(Hz)	1.5E-06	m/s ² rms/v(Hz)
100Hz	6.1E-08	grms/v(Hz)	6.0E-07	m/s ² rms/v(Hz)
1000Hz	3.0E-08	grms/v(Hz)	2.9E-07	m/s ² rms/v(Hz)
	50	g peak	491	m/s2 peak
	100	• .	981	m/s² peak
	-60 to +250	°F	-51 to 121	°C
	HERMETIC		HERMETIC	
	2 to 20	mΔ	2 to 20	mA
				Volts
				Ω
				VDC
				Sec
	10	GΩ.min	10	GΩ.min
	1Hz 10Hz 100Hz	1/4-28, TAPPED HOLE 300 SERIES CERAMIC ANNULAR SHEAR 10 0.5 0.08 to 1000 0.065 to 1500 0.045 to 3000 > 8 ± 2 5 0.001 0.07 3.0E-06 1Hz 1.5E-07 100Hz 1.5E-07 100Hz 50 100 -60 to +250 HERMETIC 2 to 20 +18 to +30 100 +11 to +13 3 to 7	Type 2-PIN, MIL-C-5015-10SL-4P 1/4-28, TAPPED HOLE 300 SERIES CERAMIC ANNULAR SHEAR 10	Type 2-PIN, MIL-C-5015-10SL-4P 1/4-28, TAPPED HOLE 300 SERIES CERAMIC ANNULAR SHEAR 300 SERIES CERAMIC ANNULAR SHEAR 5 CERAMI

This family also includes:							
Model	Sensitivity (V/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)			
3191A	5	0.08 to 1000	4 to 5	-60 to +250			

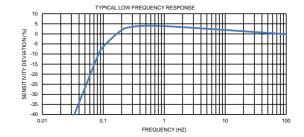
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6176 mounting stud

Notes:

- [1] Measured at 100Hz, 1 grms per ISA RP 37.2.
- [2] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [3] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the amplifier.
- [4] In the interest of constant product improvement, we reserve the right to change specifications without notice.







Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3191A for more information.

