

TORQUE MOUNTING BOLT TO: 15-20 LB-INCHES.

NOTES: UNLESS OTHERWISE SPECIFIED.

DRILL HOLE SIZE	TOLERENCE			
.0135 THRU .125	+.004 /001			
.1260 THRU .250	+.005 /001			
.2510 THRU .500	+.006 /001			
.5010 THRU .750	+.008 /001			
.7510 THRU 1.000	+.010 /001			
1.001 THRU 2.000	+.012 /001			
THIRD ANGLE PROJECTION				
USA				

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 90° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. THDS PER MIL-S-7742. DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. TOTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015. WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. **TOLERANCES ARE: DECIMALS ANGLES** .XX ± .010 ± 1° .XXX ±.005 MATERIAL **ORIG** FINISH CHK APP

DO NOT SCALE DRAWING

TITLE: **APPROVALS** DATE PML 4/1/2005 12/9/05 PML APP

CONTRACT NO.

INSTRUMENTS, INC.

Chatsworth, CA

TLINE DRAWING,

CAGE CODE DWG. NO. SIZE 2W033

127-3211A

REV

SOLIDWORKS SCALE: 2:1

SHEET 1 OF 1

 Model Number
 DOC NO

 3211A1
 PERFORMANCE SPECIFICATIONS
 PS3211A1

 IEPE ACCELEROMETER
 REV G, ECN 156937, 03/17/20



- EXCELLENT LINEARITY
- HERMETICALLY SEALED

		ENGL	ISH	SI	
PHYSICAL			•	•	
Weight		0.35	oz	10	grams
Connector, coxial	Туре	10-32	1	10-32	
Mounting Provision, thru hole		Ø.17 thru hole	Inches	Ø 4.3 thru hole	mm
Material Body/Connector	Material	Titanium		Titanium	
Sensing Element		Ceramic		Ceramic	
Element Style		Shear		Shear	
PERFORMANCE					
Sensitivity +/- 5% [1]		10	mV/g	1.02	mV/ m/s
Range for ± 5 Volts Output		± 500	g pk	± 490	m/s ²
requency Response, ± 5%		1.0 to 10000	Hz	1.0 to 10000	Hz
Resonant Frequency		> 31	kHz	> 31	kHz
Equivalent Electrical Noise Floor,	Hz to 10kHz	0.005	g rms	0.049	m/s ² rms
inearity [2]		± 1%	%F.S	± 1%	%F.S
Maximum Transverse Sensitivity		5%	1	5%	
Strain Sensitivity @250με		0.04	g/με	0.39	m/s²με
ENVIROMENTAL			-		
Maximum Vibration		600	±gpk	5886	± m/s² pk
Maximum Shock		5000	±gpk	49050	± m/s² pl
Femperature Range		-67 to +250	°F	-51 to +121	°C
Seal		Hermetic		Hermetic	
Coefficient Of Thermal Sensitivity		0.06	%/°F	0.108	%/°C
Magnetic Sensitivity @ 100 Gauss	(0,01 Tesla)	0.004	g/Gauss	392.40	m/s ² /T
ELECTRICAL					
Supply Current		2 to 20	mA	2 to 20	mA
Compliance Voltage Range		18 to 30	V	18 to 30	V
Output Impedence, Typ		120	Ω	120	Ω
Bias Voltage		+11 to +13	VDC	+11 to +13	VDC
Discharge Time Constant		0.8 to 2.0	sec	0.8 to 2.0	sec
Electrical Isolation [3]		10	GΩ	10	GΩ
Output Signal Polarity [4]		positive		positive	

This famil	v also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)	
3211A2	100	1 to 10000	0.8 to 2.0	-67 to 250	

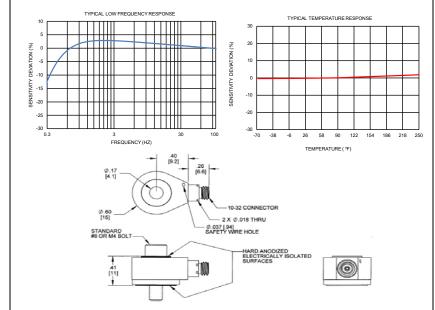
Refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Model 6595 mounting screw (8-32)
- 3) Model 6597 mounting Screw (M4x.7)

Notes:

- [1] Measured 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] Electrical ground isolated from sensor mounting surface.
- [4] For acceleration into base.
- [5] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.
- [6] In the interest of constant product improvement, we reserve the right to change specifications without notice. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary overtime. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3211A for more information.

