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VARIATION TABLE

MODEL	SENSITIVITY
3055D7	100mV/g
3055D8	50mV/g
3055D9	20mV/g
3055D10	10mV/g
3055D13	200mV/g
3055D14	500mV/g

REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	14614	INITIAL RELEASE. SAME AS REV X3.	KG 12/01/20	RA	DV

**MOUNTING RECOMMENDATION:**  
PREPARE A .55 [14] X .55 [14] MIN SURFACE,  
FLAT TO .001 TIR.  
TAP 10-32 UNF-2B  $\nabla$  .15 [3.8] MIN.  
MOUNTING TORQUE: 10-12 Lb-in.


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.  
DIMENSIONS APPLY AFTER FINISHING.


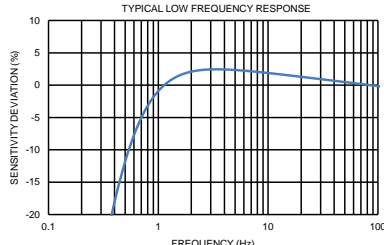
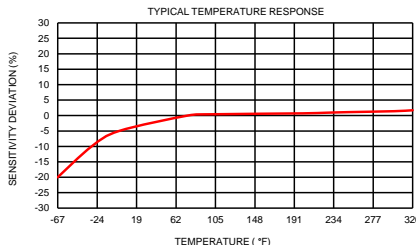
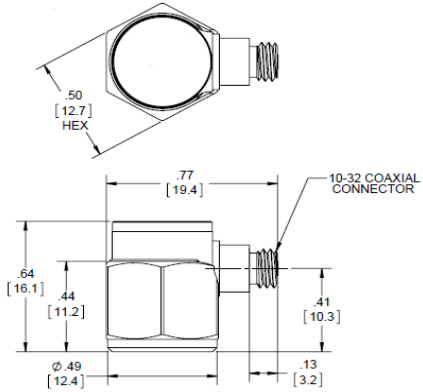
ALL MACHINED SURFACES.  $\sqrt{63}$   
TOTAL RUNOUT WITHIN .005.  
BREAK SHARP EDGES .005 TO .010.  
MACHINED FILLET RADII .005 TO .015.  
WELDING SYMBOLS PER AWS A2.4.  
ABBREVIATIONS PER MIL-STD-12.

UNLESS OTHERWISE SPECIFIED:  
DIMENSIONS ARE IN INCHES.  
DIMENSIONS IN BRACKETS [ ] ARE IN  
MILLIMETERS TOLERANCES ARE:

DECIMALS	METRIC	ANGLES
.XX $\pm$ .03	.X $\pm$ 0.8	ANGLES $\pm$ 1°
.XXX $\pm$ .010	.XX $\pm$ 0.25	

APPROVALS		DATE
ORIG	LN	03/10/17
CHK		
APP		
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA

 Chatsworth, CA			
TITLE: OUTLINE/INSTALLATION DWG, SINGLE AXIS ACCEL, 320F, ISOLATED, 3055D7 SERIES			
SIZE B	CAGE CODE 2W033	DWG NO 127-3055D7	REV A
SCALE: 3:1		SHEET 1 OF 1	

Model Number		PERFORMANCE SPECIFICATIONS				DOC NO	
3055D7						PS3055D7	
		IEPE ACCELEROMETER				REV A, ECN 14614, 12/01/20	
		<ul style="list-style-type: none"><li>• -67 °F TO +320°F OPERATION</li><li>• BASE ISOLATED</li><li>• IDEAL LOW FREQUENCY RESPONSE</li><li>• HERMETICALLY SEALED</li></ul>				<b>This family also includes:</b>	
		ENGLISH		SI			
<b>PHYSICAL</b>							
Weight	Type	0.35	oz	10	grams		
Connector	Tapped Hole	10-32		10-32			
Mounting Provision		10-32 Tapped hole		10-32 Tapped hole			
Material, Housing/Connector		Titanium		Titanium			
Sensing Element		Ceramic		Ceramic			
Element Style		Planar Shear		Planar Shear			
<b>PERFORMANCE</b>							
Sensitivity, ± 5% [2]		100	mV/g	10.2	mV/m/s <sup>2</sup>		
Range for ± 5 Volts Output		±50	g pk	±491	m/s <sup>2</sup> pk		
Frequency Response, ± 5%		1 to 5000	Hz	1 to 5000	Hz		
Frequency Response, ± 10%		1 to 10000	Hz	1 to 10000	Hz		
Resonant Frequency		> 36	kHz	> 36	kHz		
Broad Band Resolution		0.0004	g RMS	0.004	m/s <sup>2</sup> RMS		
Linearity [3]		±1	% F.S.	±1	% F.S.		
Maximum Transverse sensitivity		5	%	5	%		
Strain Sensitivity @ 250µε		0.002	g/µε	0.02	m/s <sup>2</sup> /µε		
<b>ENVIRONMENTAL</b>							
Maximum Shock		±5,000	g pk	49050	m/s <sup>2</sup> pk		
Temperature Range		-67 to +320	°F	-55 to +160	°C		
Seal		Hermetic		Hermetic			
<b>ELECTRICAL</b>							
Supply Current Range [4]		2 to 5	mA	2 to 5	mA		
Compliance Voltage Range		+18 to +30	Volts	+18 to +30	Volts		
Output Impedance, Typ		100	Ω	100	Ω		
Bias Voltage		+10 to +13	VDC	+10 to +13	VDC		
Discharge Time Constant		0.5 to 1.5	Sec	0.5 to 1.5	Sec		
Electrical Isolation		10	GΩ, min	10	GΩ, min		
						<b>Refer to the performance specifications of the products in this family for detailed description</b>	
						<b>Supplied Accessories:</b>	
						1) Accredited calibration certificate (ISO 17025)	
						2) Model 6200 mounting stud, Qty. 1	
						<b>Notes:</b>	
						[1] All specifications are at room temperature unless otherwise specified.	
						[2] Measured at 100Hz, 1 g RMS 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, 5 mA MAX. To do so will destroy the IC charge amplifier.	
						[5] 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 over time. 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 127-3055D7 for more information.	



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