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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. 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:			 Chatsworth, CA	TITLE: OUTLINE/INSTALLATION DWG, HIGH SHOCK, MECHANICALLY FILTERED, 10-32 PLUG, 3099A5-XX SERIES		
	DECIMALS .XX $\pm .03$.XXX ± 0.10	METRIC .X ± 0.8 .XX ± 0.25	ANGLES $\pm 1^\circ$				
	APPROVALS		DATE	SIZE B	CAGE CODE 2W033	DWG NO 127-3099A5-XX	REV B
	ORIG	KG	08/27/20				
	CHK						
APP			SCALE: 3:1				
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION USA 					SHEET 1 OF 1

Model Number 3099A5-XX		PERFORMANCE SPECIFICATION				DOC NO PS3099A5-XX	
		SHOCK ACCELEROMETER, IEPE				REV B, ECN 16173, 05/03/21	
		<ul style="list-style-type: none">• MECHANICALLY & ELECTRICALLY FILTERED• INTEGRAL CABLE W/ 10-32 CONNECTOR• CASE ISOLATED					
		ENGLISH		SI			
		0.28	oz	8	grams		
		1/4-28 UNF-2A		1/4-28 UNF-2A			
		Twisted Pair, PTFE		Twisted Pair, PTFE			
Integral Cable		Coaxial 10-32 Plug		Coaxial 10-32 Plug			
Connector		Titanium		Titanium			
Material		Quartz		Quartz			
Element Style		Planar Shear		Planar Shear			
Type							
PERFORMANCE		0.05		0.005			
Sensitivity, ±20% [2]		mV/g		mV/m/s ²			
Measurement Range		±60,000		±588,600			
Frequency Range, ±3dB		10 to 10,000		10 to 10,000			
Resonant Frequency		> 10.5		> 10.5			
		> 120		> 120			
Linearity [3]		%		%			
Broadband Resolution		1.0		9.81			
Maximum Transverse Sensitivity		5		5			
Strain Sensitivity		0.0005		0.0049			
		g/με		m/s ² /με			
ELECTRICAL		2 to 20		2 to 20			
Supply Current Range [4]		mA		mA			
Compliance Voltage Range		+18 to +30		+18 to +30			
Output Impedance, Typ.		100		100			
Output Bias Voltage		7.0 to 12.0		7.0 to 12.0			
Discharge Time Constant		1.0 to 2.0		1.0 to 2.0			
Warm up time (within 10% of Bias)		< 8		< 8			
Electrical Filter		Two Pole		Two Pole			
		7		7			
Ground Isolation		>10		>10			
		kHz		kHz			
		MΩ		MΩ			
ENVIRONMENTAL		±120,000		±1,177,200			
Maximum Shock		g pk		m/s ² pk			
Temperature Range, Sensor		-10 to +250		-12 to +121			
Temperature Range, Integral Cable		-76 to +392		-60 to +200			
Coefficient of Thermal Sens.		0.03		0.05			
Seal		Hermetic		Hermetic			

