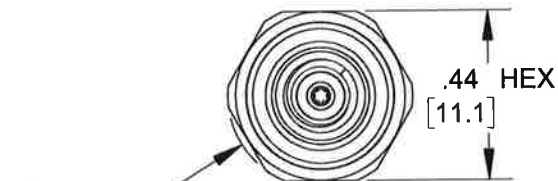


PROPRIETARY AND CONFIDENTIAL

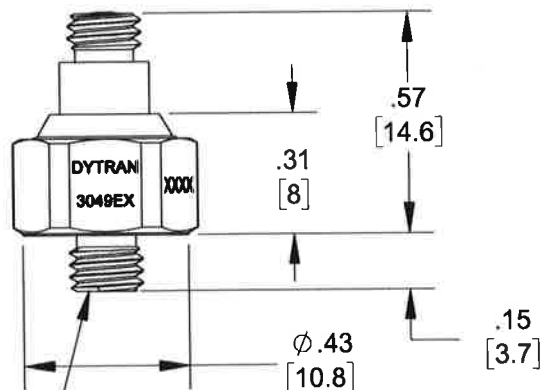
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REVISIONS

REV.	ECN	DESCRIPTION	BY/DATE	CHK	APPR
C	10171	3049E1 & 3049E3 - WEIGHT IS: 3.5 GRAMS WAS: 4.0 GRAMS	LN 07/10/13	DV	AS
D	13077	ADDED 3049E4 & E5	JS 10/27/16	LA	AS



Ø.48
[12.1]



1 10-32 UNF-2A MOUNTING STUD

1 MOUNTING TORQUE TO: 8-10 lb-in

NOTES: UNLESS OTHERWISE SPECIFIED

10-32 COAXIAL CONNECTOR



ACCELERATION IN THIS DIRECTION PRODUCES POSITIVE OUTPUT ON CENTER CONNECTOR PIN

MODEL	REV	ECN	DATE	SENSITIVITY	MOUNTING	WEIGHT, MAX
3049E	B	9307	11/02/12	10 mV/g	STUD	4.2 GRAMS
3049E1	C	10171	07/10/13	10 mV/g	ADHESIVE	3.5 GRAMS
3049E2	B	9307	11/02/12	100 mV/g	STUD	4.2 GRAMS
3049E3	C	10171	07/10/13	100 mV/g	ADHESIVE	3.5 GRAMS
3049E4	A	13077	10/27/16	50mV/g	STUD	4.2 GRAMS
3049E5	A	13077	10/27/16	50mV/g	ADHESIVE	3.5 GRAMS

CONTRACT NO.



TITLE:

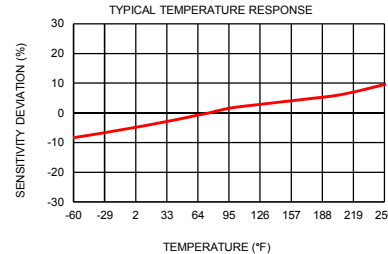
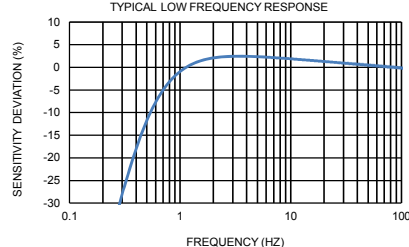
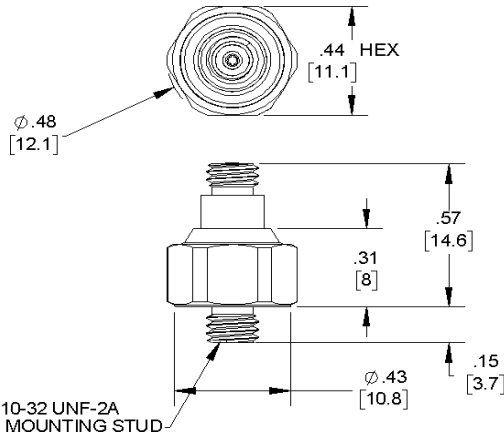
OUTLINE/INSTALLATION
DRAWING, 3049E SERIES

USED ON	NEXT ASSY
APPLICATION	
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. DIMENSIONS IN BRACKETS [] ARE IN MILLIMETERS TOLERANCES ARE: INCHES METRIC ANGLES .XX ± .03 .X ± 0.8 ± 1° .XXX ± .010 .XX ± 0.25	MATERIAL
FINISH	
DO NOT SCALE DRAWING	

APPROVALS		DATE
ORIG	PML	12/09/05
CHK	PML	04/17/06
APP	PML	04/17/06
APP		

SIZE A	CAGE CODE 2W033	DWG. NO. 127-3049E	REV D
SCALE: 4:1		SOLIDWORKS	SHEET 1 OF 1

Model Number 3049E		PERFORMANCE SPECIFICATIONS				DOC NO PS3049E																					
		IEPE ACCELEROMETER				REV B, ECN 14548, 10/09/18																					
		• MINIATURE DESIGN • HERMETICALLY SEALED • LOW-OUTGASSING																									
		ENGLISH		SI																							
PHYSICAL																											
Weight, Max.		0.15	oz	4.2	grams																						
Connector, Top Mounted		10-32		10-32																							
Mounting Provision		Integral Stud 10-32 UNF-2A		Integral Stud 10-32 UNF-2A																							
Material (Base, Cap, Connector)		Titanium Alloy		Titanium Alloy																							
Sensing Element	Material Mode	Ceramic		Ceramic																							
		Shear		Shear																							
PERFORMANCE																											
Sensitivity, $\pm 5\%$ [1]		10	mV/g	1.0	mV/m/s ²																						
Range for ± 5 Volts Output		500	g	4905	m/s ²																						
Frequency Response, $\pm 5\%$		1 to 10,000	Hz	1 to 10,000	Hz																						
Resonant Frequency		> 35	kHz	> 35	kHz																						
Equivalent Electrical Noise Floor		0.003	Grms	0.03	m/s ² rms																						
Linearity, [2]		± 2	% F.S.	± 2	% F.S.																						
Maximum Transverse Sensitivity		5	%	5	%																						
Base Strain Sensitivity @ 250 μ e		0.004	g/ μ e	0.04	m/s ² / μ e																						
ENVIRONMENTAL																											
Maximum Vibration		600	Gpeak	5886	m/s ² peak																						
Maximum Shock		5000	Gpeak	49050	m/s ² peak																						
Temperature Range		-60 to +250	*F	-51 to 121	*C																						
Seal		Hermetic		Hermetic																							
ELECTRICAL																											
Supply Current Range [3]		2 to 20	mA	2 to 20	mA																						
Compliance Voltage Range		+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																						
Discharge Time Constant		0.5 to 1.2	Sec	0.5 to 1.2	Sec																						
Output Signal Polarity for Acceleration Toward Top		Positive		Positive																							
Electrical Isolation (Case Ground to Mounting Surface)		10	G Ω	10	G Ω																						
						This family also includes: <table><tr><th>Model</th><th>Sensitivity (mV/g)</th><th>Frequency Response (Hz)</th><th>Time Constant (Sec)</th><th>Operating Temp (*F)</th></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td></tr></table> Refer to the performance specifications of the products in this family for detailed description Supplied Accessories: 1) Accredited calibration certificate (ISO 17025) 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] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier.  		Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (*F)															
Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (*F)																							
		Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3049E for more information.																									



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