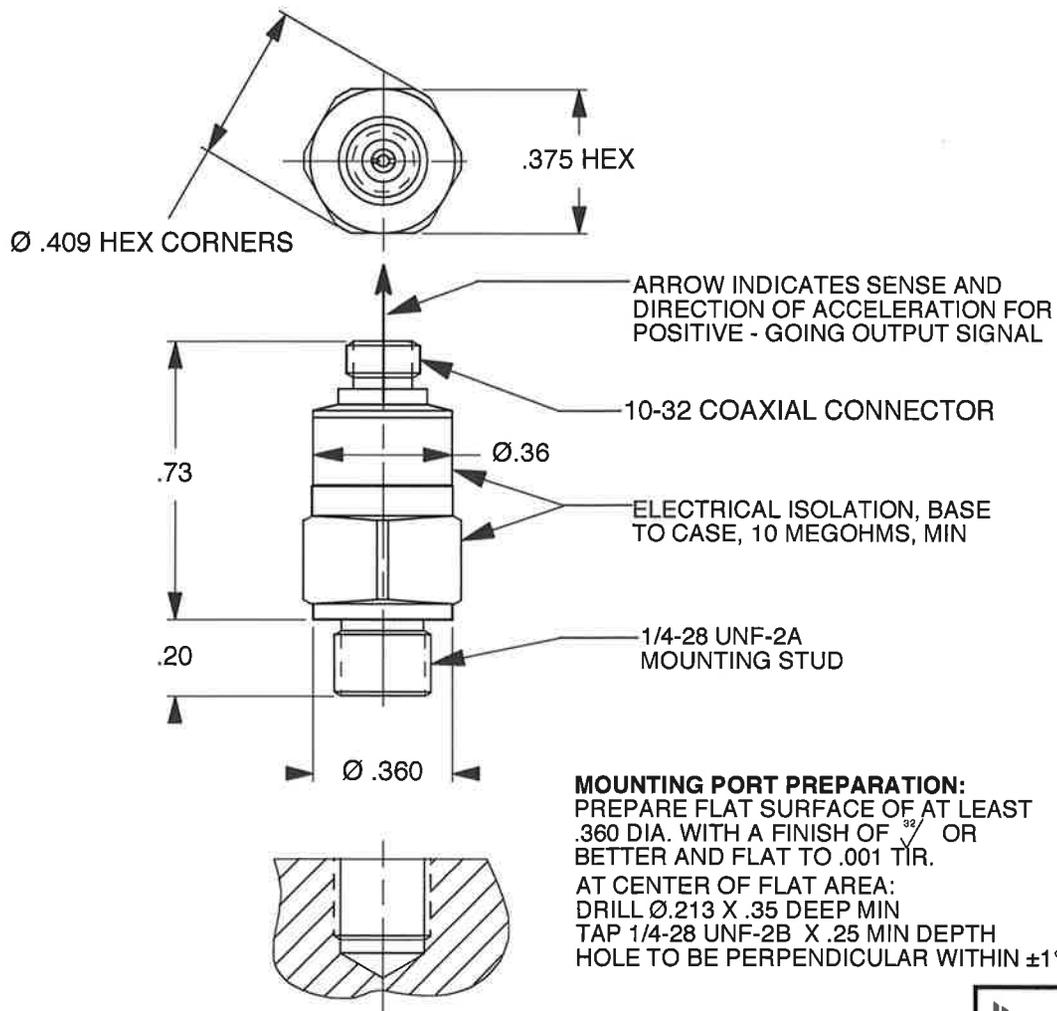


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REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
A	10476	REMOVED WELD GROOVES	NC/11-5-13	EM	W



3. MATERIAL: 300 SERIES STAINLESS STEEL.
2. WEIGHT: 8 GRAMS.
1. RECOMMENDED MOUNTING TORQUE ON 3/8 IN. HEX: 20 TO 25 LB.-INCHES.

		MASTER ONLY IF IN RED		CHATSWORTH, CA.	
SCALE	DESIGN	DATE			
2X	N.C.	6/2/98			
DRAWN	DATE	PART NO.			
N.C.	6/2/98	MODEL 3019A			
CHECKED	DATE	MAT'L			
R.A.	6/2/98				
APPROVED	DATE	NEXT ASSEMBLY	USED ON		
	6/2/98		3019A		
TITLE			DWG NO.		
OUTLINE/INSTALLATION DRAWING, HIGH FREQUENCY ACCELEROMETER MODEL 3019A			127-3019A		
SHEET 1 OF 1					

Model Number 3019A	PERFORMANCE SPECIFICATION	DOC NO PS3019A
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MINIATURE IEPE ACCELEROMETER

REV B, ECN 15518, 01/10/20



- **MINIATURE SIZE**
- **BASE ISOLATED**
- **HERMETICALLY SEALED**

PHYSICAL

Weight
Size
Connector
Mounting Provision
Material
Element Style

Hex x Height
Top Mounted
Integral Stud
Accelerometer and Connector

ENGLISH		SI	
0.3	oz	8	grams
0.375 x 0.73	Inches	9.5 x 18.5	mm
10-32 Micro Coax		10-32 Micro Coax	
1/4-28 X .20 Long		1/4-28 X .20 Long	
300 SS		300 SS	
Quartz		Quartz	

PERFORMANCE

Sensitivity, $\pm 5\%$ [1]
Range F.S for ± 5 Volts Output
Frequency Response, $\pm 5\%$
Frequency Response, $\pm 10\%$
Frequency Response, $\pm 3\text{dB}$
Resonant Frequency
Equivalent Electrical Noise Floor
Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250 $\mu\epsilon$

10	mV/g	1	mV/m/s ²
± 500	g	± 4905	m/s ²
1 to 8000	Hz	1 to 8000	Hz
0.7 to 10000	Hz	0.7 to 10000	Hz
.3 to 15000	Hz	.3 to 15000	Hz
>50	kHz	>50	kHz
0.007	grms	0.07	m/s ² rms
$\pm 2\%$	% F.S.	$\pm 2\%$	% F.S.
5	%	5	%
0.003	g/ $\mu\epsilon$	0.03	m/s ² / $\mu\epsilon$

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal, Hermetic

± 1000	gpeak	± 9810	m/s ² peak
± 3000	gpeak	± 29430	m/s ² peak
-60 to +300	*F	-51 to +149	*C
Welded/Glass To Metal		Welded/Glass To Metal	

ELECTRICAL

Supply Current Range [3]
Compliance Voltage Range
Output Impedance, Typ
Bias Voltage
Discharge Time Constant
Electrical Isolation, Min.
Output Signal Polarity for Acceleration Toward Top

2 to 20	mA	2 to 20	mA
+ 18 to +30	Volts	+ 18 to +30	Volts
100	Ω	100	Ω
+7.5 to +9.5	VDC	+7.5 to +9.5	VDC
0.5 to 1.0	Sec	0.5 to 1.0	Sec
10	M Ω	10	M Ω
Positive		Positive	

This family also includes:

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (*F)

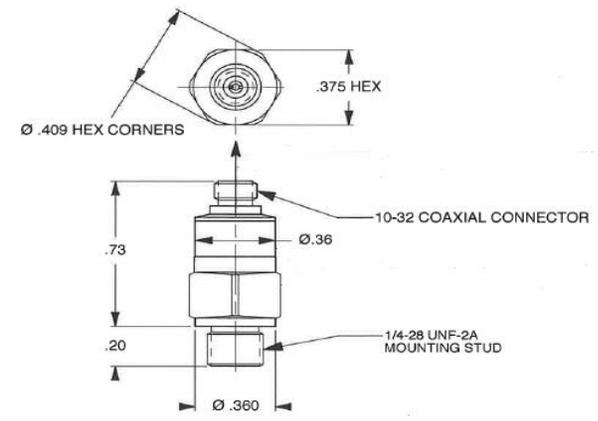
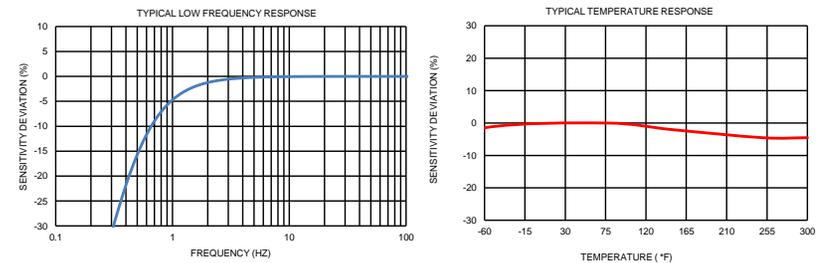
Please refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measure 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.
 - [4] In the interest of constant product improvement, we reserve the rights to change the 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 127-3019A for more information.



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