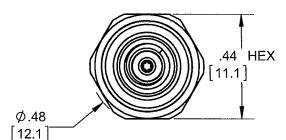
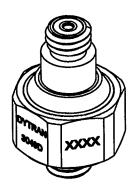


		REVISIONS			
REV	ECN	DESCRIPTION	BY/DATE	CHK	APPR
В	9307	REVISED TO REFLECT NEW HOUSING. NOTE 3: IS :WEIGHT 4.0 GRAMS NOM. WAS: 2.8 GRAMS NOM.	LN 11/02/12	JS	AS
С	9633	NOTE 1: IS :5.0 pC/g NOM. WAS: 5.6 GRAMS NOM. NOTE 2: IS : 1500pF NOM. WAS: 650pF NOM.	LN 02/18/13	Br	AS



10-32 COAXIAL CONNECTOR .57 [14.6] .31 DYTRAN [8] 3049D .15 [3.7] 10-32 UNF-2A Ø.43 MOUNTING STUD [10.8]

ARROW INDICATES DIRECTION OF ACCELERATION FOR POSITIVE CHARGE OUTPUT



3. WEIGHT: 4.0 GRAMS NOM.

2. CAPACITANCE: 1500pF NOM.

1. SENSTIVITY: 5.0 pC/g NOM.

	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 FO
NEXT ASSY	MIN FULL THDS. THDS PER MIL-S-7742.
CATION	DIMENSIONS APPLY AFTER FINISHIN
	63/
SA /	ALL MACHINED SURFACES. V TOTAL RUNOUT WITHIN .005.
	BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .019
	WELDING SYMBOLS PER AWS A2.4. ABBREVIATIONS PER MIL-STD-12.
	NEXT ASSY CATION PROJECTION SA

UNLESS OTHERWISE SPECIFIED: NTERPRET DIM & TOL PER SME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS 0° TO MAJOR DIA. CHAM EXT THDS 45° TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR IN FULL THDS. HDS PER MIL-S-7742.

DIMENSIONS APPLY AFTER FINISHING. ALL MACHINED SURFACES. OTAL RUNOUT WITHIN .005. BREAK SHARP EDGES .005 TO .010. MACHINED FILLET RADII .005 TO .015.

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

.XX ± .03 .X ± 0.8 ± 1° .XXX±.010 .XX ±0.25 MATERIAL FINISH

DO NOT SCALE DRAWING

APPROVALS DATE ORIG PML 12/17/05 CHK APP PML 06/08/06

CONTRACT NO.

APP

TITLE:

OUTLINE/INSTALLATION DRAWING, MODEL 3049D

CAGE CODE DWG. NO. SIZE REV 2W033 127-3049D **SOLIDWORKS** SHEET 1 OF 1 SCALE: NONE

Model Number

3049D

PERFORMANCE SPECIFICATIONS

grams

pC/m/s²

m/s2 peak

Hz

kHz

% F.S.

%

 $m/s^2/\mu\epsilon$

m/s2 peak

m/s2 peak

°C

%/°C

SI

4.2

10-32

Integral Stud 10-32 UNF-2A

Titanium Alloy

Ceramic

Shear

0.5

[3]

[4] to 8,000

> 40

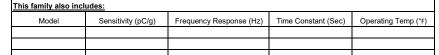
±1

5

0.29

CHARGE MODE ACCELEROMETER

DOC NO PS3049D REV A. ECN 15295, 09/03/19



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

CHARGE MODE HERMETICALLY SEALED LOW-OUTGASSING

BASE ISOLATED

PHYSICAL

PERFORMANCE

Sensitivity, ±15% [1]

Resonant Frequency

ENVIRONMENTAL

Maximum Vibration

Temperature Range

Maximum Shock

ELECTRICAL

Capacitance, nom.

Case Grounding

Seal

Linearity, [2]

Acceleration Range F.S.

Frequency Response, ± 5%

Strain Sensitivity @ 250με

Maximum Transverse Sensitivity

Coefficient of Thermal Sensitivity

Output Signal Polarity for Acceleration Toward Top

Weight, Max. Connector, Top Mounted Mounting Provision Material (Base, Cap, Connector) Sensing Element

Material Mode

10-32
Integral Stud 10-32 UNF-2A
Titanium Alloy
Ceramic
Shear
5.0

[3]

[4] to 8,000

> 40

±1

5

0.15

ENGLISH

pC/g	
Gpeak	
Hz	
kHz	
% F.S.	
0/2	

ΟZ

±1000	
±2000	,
-100 to +350	,
.06	

1500	Ī
Positive	
Base Isolated	Ī

Hermetic

Gpeak
Hz
kHz
% F.S.
%
g/με

Gpeak	±9810
Gpeak	±19620
°F	-73 to +17
%/°F	0.11
	Hermetic

1500	
Positive	
Base Isolated	

Supplied Accessories:

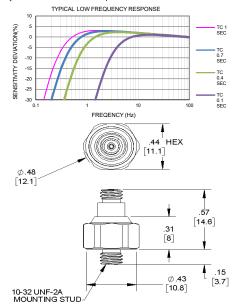
1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Measured at 100Hz, 1 Grms per ISA RP 37.2.
- [2] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [3] Depends on the gain setting of the charge amplifier used
- [4] Low frequency response is dependent upon the discharge time constant of the charge amplifier.

Please, refer to the plot below for frequency response for different time constants.

[5] 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 127-3049D for more information.

