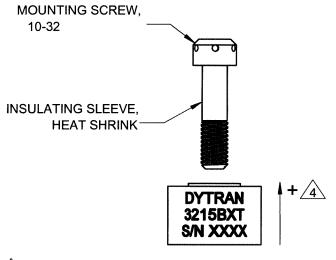
# PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF DYTRAN INSTRUMENTS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF DYTRAN INSTRUMENTS INC. IS PROHIBITED MODEL SENSITIVITY 3215B1T 5 mV/g 3215B2T 10 mV/g



4 ARROW INDICATES DIRECTION FOR POSITIVE OUTPUT.

MOUNTING SCREW ,MODEL 6368, 10-32 X .75 [19.1] LONG, WITH INSULATING SLEEVE, SUPPLIED MOUNTING SCREW, MODEL 69075, 10-32 X .75 [19.1] LONG, WITHOUT LOCK WIRE HOLES, AVAILABLE.

2. HOUSING/CONNECTOR MATERIAL: TITANIUM ALLOY

1. WEIGHT: 8.7 GRAMS, MAX.

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.
IMMENSIONS APPLICATION

NOTES: UNLESS OTHERWISE SPECIFIED

THIRD ANGLE PROJECTION
USA

THDS PER MIL-S-7742.
DIMENSIONS APPLY AFTER FINISHING.
63
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:

**REV** 

Α

**ECN** 

14993

ORIG NDC 03/29/19

CHK CHK

APP

DO NOT SCALE DRAWING APP

CONTRACT NO.

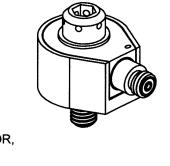
APPROVALS

DATE

Ø.19 THRU
[4.8]

Ø.68
[17.2]

CONNECTOR, 10-32 JACK



**APPR** 

30

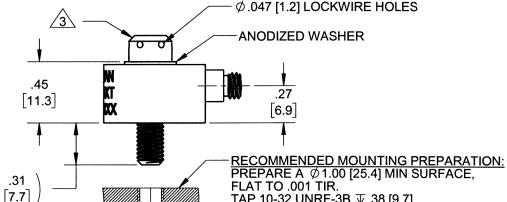
CHK

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BY/DATE

KG

05/20/19



**REVISIONS** 

DESCRIPTION

INITIAL RELEASE

FLAT TO .001 TIR. TAP 10-32 UNRF-3B ▼.38 [9.7] MOUNTING TORQUE: 10-12 lb-in

MAST MAST Chatsworth, EAN

TITLE: OUTLINE/INSTALLATION
DRAWING, MODEL 3215BXT
SERIES, ISOLATION CUP
SIZE CAGE CODE IDWG. NO.

**SOLIDWORKS** 

SIZE CAGE CODE 2W033

SCALE: NONE

127-3215B1T

SHEET 1 OF 1

REV

172-0081, REV D

Model Number 3215B1T

PERFORMANCE SPECIFICATION

DOC NO PS3215B1T

MINIATURE IEPE ACCELEROMETER

REVA. ECN 14993, 05/20/19



- MINIATURE SIZE
- HERMETICALLY SEALED
- BASE ISOLATED
- TEDS FEATURE

# PHYSICAL

Weight, Max Connector, Side Mounted Mounting Provision, Thru Hole Material, Housing/Connector Sensing Element Element Style

## PERFORMANCE

Sensitivity, ±5% [1]
Range F.S for ± 5 Volts Output
Frequency Response, ±5%
Frequency Response, ±10%
Resonant Frequency
Equivalent Electrical Noise Floor
Linearity [2]
Maximum Transverse Sensitivity
Strain Sensitivity @ 250µɛ

### ENVIRONMENTAL

Maximum Vibration Maximum Shock Temperature Range TEDS Operating Range Seal

Supply Current Range [3]

### ELECTRICAL

Compliance Voltage Range
Output Impedance,Typ
Bias Voltage
Discharge Time Constant
Isolation, Case to mounting surface, Min.
ITEDS Feature

0.30 oz 10-32 Jack	
10-32 Jack	
Ø.19 Inch	es
Titanium Alloy	
Quartz	
Shear	

	-
5	mV/g
± 1000	g
1.6 to 5,000	Hz
1.1 to 10,000	Hz
>50	kHz
0.010	Grms
± 1%	% F.S.
5	%
0.003	g/με

± 1500	Gpeak
± 5000	Gpeak
-60 to +300	°F
-40 to +185	°F
Hermetic	

2 to 20	mA
+18 to +30	VDC
100	Ω
+7.5 to +9.5	VDC
0.3 to 2.0	Sec
10	GΩ
IEEE 1451.4	

± 49050	m/s² pea
-51 to +149	°C
-40 to +85	°C
Hermetic	
	-
2 to 20	mA

SI

8.7

10-32 Jack

Ø 4.8

Titanium Allov

Quartz

Shear

0.5

± 9810

1.6 to 5,000

1.1 to 10,000

>50

0.10

± 1%

5

0.03

± 14715

2 to 20	mA
+18 to +30	VDC
100	Ω
+7.5 to +9.5	VDC
0.3 to 2.0	Sec
10	GΩ
IEEE 1451.4	

This family also include	les:			
Model	Sensitivity (mV/g)	Frequency Response, ±10% (Hz)	Time Constant (Sec)	Operating Temp (°F)
3215B2T	10	1.1 to 10,000	0.3 to 2.0	-60 to +300

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

### Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)
- 2) Mounting Screw, Model 6368, Qty: 1

### Accessories Available:

1) Mounting Screw, Model 69075 (No lock wire holes)

### lotes:

grams

mm

mV/m/s<sup>2</sup>

m/s<sup>2</sup>

Hz

Hz

kHz

m/s2 rms

% F.S.

%

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

m/s2 peak

- [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.

