5. MINOR VOIDS, SCARS, SCRATCHES AND MOUNTING BLEMISH/WITNESS MARKS ON EXTERIOR SURFACES ARE ALLOWED DUE TO Restraining AND HANDLING DURING Testing, TRANSPORT OR PROCESSING. THESE APPEAR AS INDICATORS THAT DO NOT AFFECT FORM, FIT OR FUNCTION AS INTENDED BY DESIGN OR APPLICATION.

MARKING DENOTES LOCATION OF SENSING ELEMENT’S CENTER OF MASS

MATES WITH DYTRAN 6964AXX CABLE (XX DENOTES LENGTH IN FT)

2. WEIGHT: 38 GRAMS, MAX.

1. MATERIAL: TITANIUM ALLOY.

NOTES: UNLESS OTHERWISE SPECIFIED
2X FLAT WASHERS, MODEL 6754, SUPPLIED

2X MOUNTING SCREW, MODEL 6753A1 (8-32 x 1.0), SUPPLIED
2X MOUNTING SCREW, MODEL 6687A1 (M4x0.7 x 25mm), SUPPLIED

RECOMMENDED MOUNTING PREPARATION:
PREPARE FLAT MOUNTING SURFACE EQUAL TO OR BETTER THAN .001 TIR.
TAP 8-32 UNF-3B .200 MIN. (OR 2X M4 X 0.7-6g .20 [5.1] MIN.)
RECOMMENDED TORQUE 10-12 LB-IN. (1.12-1.35 N-m).

1/4-28 UNF-2B

1/4-28 UNF-2A

(M6 X 1)

STUD, MODEL 6691,
1/4-28 UNF-2A TO M6 X 1, SUPPLIED

RECOMMENDED MOUNTING PREPARATION: MODEL 6691
PREPARE MOUNTING SURFACE, Ø 1.25 [31.2] MIN. FLAT TO .001 TIR.
TAP M6 x 1 .200 [5.1] MIN. TORQUE TO 12-15 Lb-in.

MOUNTING STUD, MODEL 6360,
1/4-28 TO 1/4-28, SUPPLIED

RECOMMENDED MOUNTING PREPARATION: MODEL 6366
PREPARE MOUNTING SURFACE, Ø 1.25 [31.2] MIN. FLAT TO .001 TIR.
TAP 1/4-28 UNF-2B .200 [5.1] MIN. TORQUE TO 12-15 Lb-in.
# PERFORMANCE SPECIFICATION

## PHYSICAL
- **Weight, Max.** 1.3 oz / 38 grams
- **Connector Type** 9-pin, 5/16-32 UNEF-2A
- **Material** Titanium Alloy
- **Sensing Technology** MEMS

## PERFORMANCE
- **Input Range** ±200 g
- **Frequency Response (±5%)** 0 - 1600 Hz
- **Resonant Frequency** >3000 Hz
- **Sensitivity Differential, ±5% (mV/g)** 20 mV/g
- **Output Noise, Differential, Typ** 290 μg RMS/V Hz
- **Cross Axis Sensitivity, Max** 3 %
- **Scale Factor Calibration Error, Max.** 1 %
- **Zero Measured Output** ±50 mV

## ENVIRONMENTAL
- **Maximum Mechanical Shock (0.1 ms)** ±2000 g
- **Bias Temperature Shift, Max.** [3] 111 ppm/°F
- **Bias Calibration Error, Max.** 0.5 %
- **Operating Temperature Range** [-67 to +257] °F
- **Scale Factor Temperature Shift, Max.** [-111 to +111] ppm/°F
- **Seal** Hermetic

## ELECTRICAL
- **Output Common Mode Voltage, Typ** 2.5 VDC
- **Output Impedance** <10 KΩ
- **Operating Voltage** +6 V to +33 VDC
- **Operating Current (AOP & AON open), Max.** 35 mA DC
- **Power Supply Rejection Ratio** >65 dB
- **Ground Isolation** >30 MΩ

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### ENGLISH

- **Model** 7503D7
- **Input Range (g)**
  - 7503D1: ±2
  - 7503D2: ±5
  - 7503D3: ±10
  - 7503D4: ±25
  - 7503D5: ±50
  - 7503D6: ±100
  - 7503D8: ±400
  - 7503D9: ±50(X&Y), ±25(Z)
  - 7503D10: ±5(X&Y), ±50(Z)

### SI

- **Input Range (m/s²)**
  - 7503D1: ±200
  - 7503D2: ±1962
  - 7503D3: ±4000
  - 7503D4: ±8000
  - 7503D5: ±15000
  - 7503D6: ±31500
  - 7503D8: ±72000
  - 7503D9: ±8000(X&Y), ±15000(Z)
  - 7503D10: ±8000(X&Y), ±27000(Z)

### Notes:
- 1. Single ended sensitivity is half of values shown. (Ref. at 100 Hz)
- 2. -90% to +90% of Full Scale.
- 3. Over the rated temperature range.
- 4. Limit operating voltage to +24VDC when temperature is greater than 240°F (115°C).
- 5. In the interest of constant product improvement, we reserve the right to change specifications without notice.
- 6. Flat washers, Model 5754, Qty. 2

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### Supplies Accessories:
- 1. Accredited calibration certificate (ISO 17025)
- 2. Mounting stud, Model 6360, 1/4-28 UNF-2A, Qty 1
- 3. Mounting stud, Model 6691, 1/4-28 UNF-2A to M6 X 1, Qty 1
- 4. Mounting screws, Model 6753A1, 8-32 x 1.0, Qty. 2
- 5. Mounting screws, Model 6687A1, M4x0.7 x 25mm, Qty. 2
- 6. Flat washers, Model 6754, Qty. 2

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