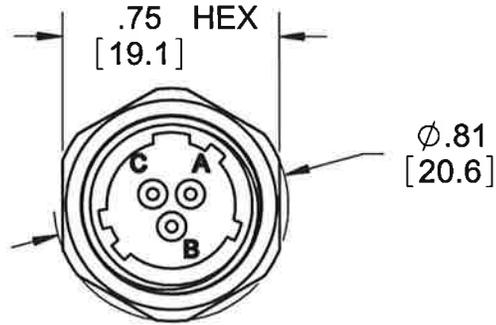


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REVISIONS

| REV | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|-----|-------|---------------------------|----------------|--------------------|------|
| A | 6410 | INITIAL RELEASE | DV 09/17/09 | EP | DV |
| B | 12799 | REMOVED UNRELEASED MODELS | EM 07/13/16 | <i>[Signature]</i> | AS |

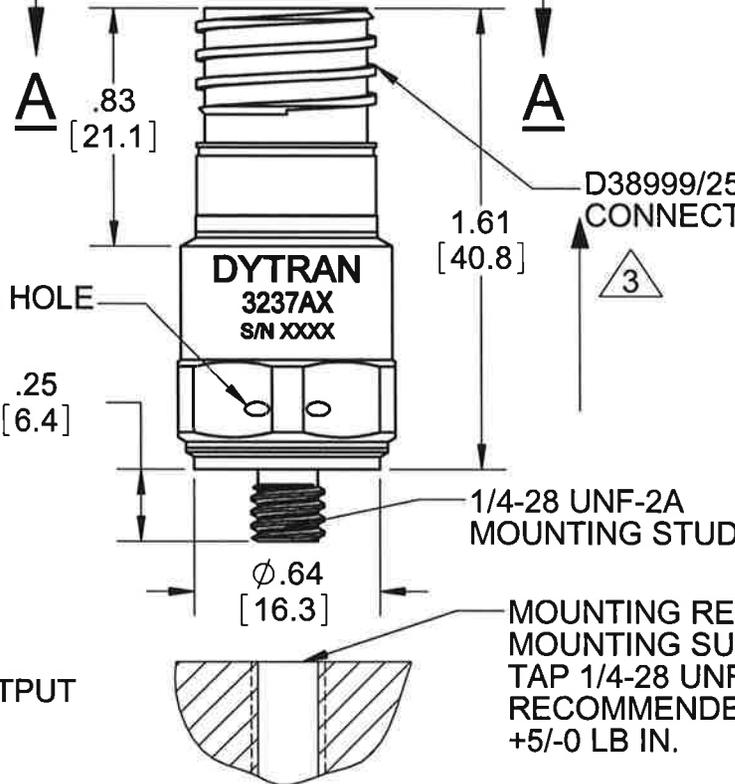


PIN A: SIG/PWR
PIN B: SIG/PWR RTN
PIN C: CASE

VIEW A-A

Ø.81 [20.6]
LOCKWIRE HOLE
Ø.047

| MODEL | SENSITIVITY(mV/g) |
|--------|-------------------|
| 3237A2 | 25 |



- 4 MATES WITH D38999/26KA98SA
- 3 ARROW SHOWS DIRECTION OF ACCELERATION FOR POSITIVE OUTPUT
- 2. MATERIAL: 304L
- 1. WEIGHT: 37 GRAMS APPROX.

NOTES: UNLESS OTHERWISE SPECIFIED

MOUNTING RECOMMENDATIONS: PREPARE FLAT MOUNTING SURFACE Ø.68 [15.2], FLAT TO .001TIR. TAP 1/4-28 UNF-2B ∇ .300 [7.62] MIN. RECOMMENDED MOUNTING TORQUE: 15 LB IN +5/-0 LB IN.

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

CONTRACT NO. _____

| APPROVALS | | DATE |
|-----------|----|----------|
| ORIG | DV | 09/17/09 |
| CHK | EP | 11/20/09 |
| APP | DV | 11/20/09 |
| APP | | |

DYTRAN INSTRUMENTS, INC. MASTER ONLY IF IN RED
Chatsworth, CA

TITLE: **OUTLINE/INSTALLATION DRAWING, 3237A SERIES**

| | | | |
|---------------|------------------------|---------------------------|--------------|
| SIZE A | CAGE CODE 2W033 | DWG. NO. 127-3237A | REV B |
|---------------|------------------------|---------------------------|--------------|

SCALE: 3:2 SOLIDWORKS SHEET 1 OF 1

| | | |
|-------------------------------|--|----------------------------|
| Model Number 3237A2 | PERFORMANCE SPECIFICATION | DOC NO PS3237A2 |
| | HIGH FREQUENCY IEPE QUARTZ SHEAR ACCELEROMETERS | REV B, ECN 12799, 07/13/16 |



- HIGH FREQUENCY PERFORMANCE
- EXCELLENT LINEARITY
- ELECTRICALLY ISOLATED
- HERMETICALLY SEALED

PHYSICAL

Weight
Size
Connector
Mounting Provision : Integral Stud
Material : Housing, Base and Connector Element Style

| ENGLISH | | SI | |
|-----------------|--------|-----------------|-------|
| 1.30 | oz | 37 | grams |
| .750 x 1.61 | Inches | 19.05 x 40.89 | mm |
| D38999/25YA98PA | | D38999/25YA98PA | |
| 3 PIN | | 3 PIN | |
| 1/4 - 28 UNF-2A | | 1/4 - 28 UNF-2A | |
| 304L | | 304L | |
| Quartz Shear | | Quartz Shear | |

PERFORMANCE

Sensitivity, ±5% [2]
Range F.S for ± 5 Volts Output
Frequency Range ±5%
Resonant Frequency, Nominal ±15%
Equivalent Electrical Noise Floor
Linearity [3]
Maximum Transverse sensitivity
Strain Sensitivity

| | | | |
|---------------|--------|---------------|----------------------|
| 25 | mV/g | 2.55 | mV/m/s ² |
| ±200 | G's | ±1962 | m/s ² |
| 0.48 to 10000 | Hz | 0.48 to 10000 | Hz |
| 0.32 to 20000 | Hz | 0.32 to 20000 | Hz |
| >30 | kHz | >30 | kHz |
| 0.009 | Grms | 0.088 | m/s ² rms |
| ± 1% | % F.S. | ± 1% | % F.S. |
| 5 | % | 5 | % |
| 0.002 | g/μσ | 0.02 | m/s ² /μσ |

ENVIRONMENTAL

Maximum Vibration
Maximum Shock
Temperature Range
Seal

| | | | |
|-------------|-------|-------------|-----------------------|
| ±600 | Gpeak | ±5886 | m/s ² peak |
| ±3000 | Gpeak | ±29430 | m/s ² peak |
| -60 to +305 | °F | -54 to +152 | °C |
| Hermetic | | Hermetic | |

ELECTRICAL

Supply Current Range [4]
Compliance Voltage Range
Output Impedence, Typ
Bias Voltage
Discharge Time Constant, Nom
Output Signal Polarity for Acceleration Towards Top
Electrical Isolation, Ground (Pin B) to case (pin A)

| | | | |
|--------------|--------|--------------|--------|
| 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 |
| 1 to 2 | Sec | 1 to 2 | Sec |
| Positive | | Positive | |
| 10 | GΩ,min | 10 | GΩ,min |

This family also includes:

| Model | Sensitivity (mV/g) | Range F.S ± 5 Volts (G's) | Max Vibration/Shock(± Gpeak) | Resonant Frequency (kHz) |
|-------|--------------------|---------------------------|------------------------------|--------------------------|
| | | | | |
| | | | | |
| | | | | |

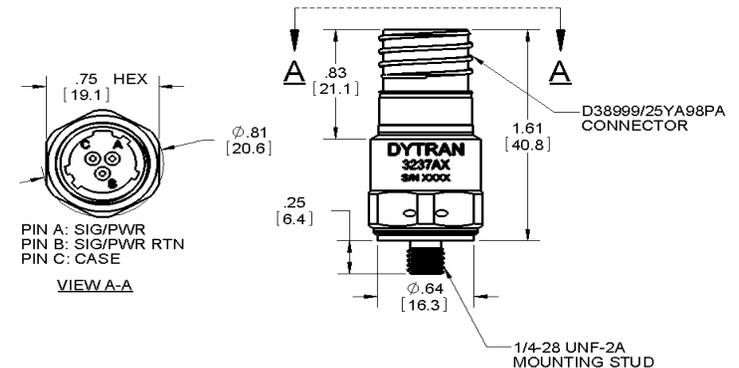
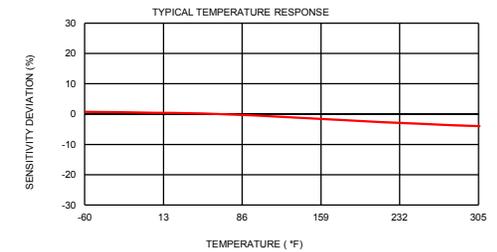
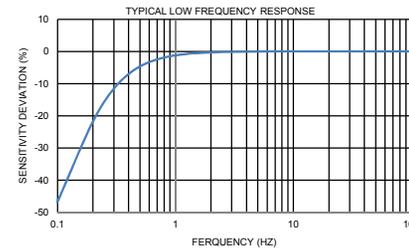
Please refer to the performance specifications of the products in this family for detailed description

Supplied Accessories:

- 1) Accredited calibration certificate (ISO 17025)

Notes:

- [1] Pin A-SIG/PWR, Pin B - SIG/PWR RTN, Pin C - CASE
[2] Measure at 100Hz, 1 Grms per ISA RP 37.2
[3] Measure using zero-based straight line method, % of F.S. or any lesser range
[4] Do not apply power to this system without current limiting, 20 mA MAX. To do so will destroy the IC charge amplifier
[5] Lock wire holes are included in the base



Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-3237A for more information.



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