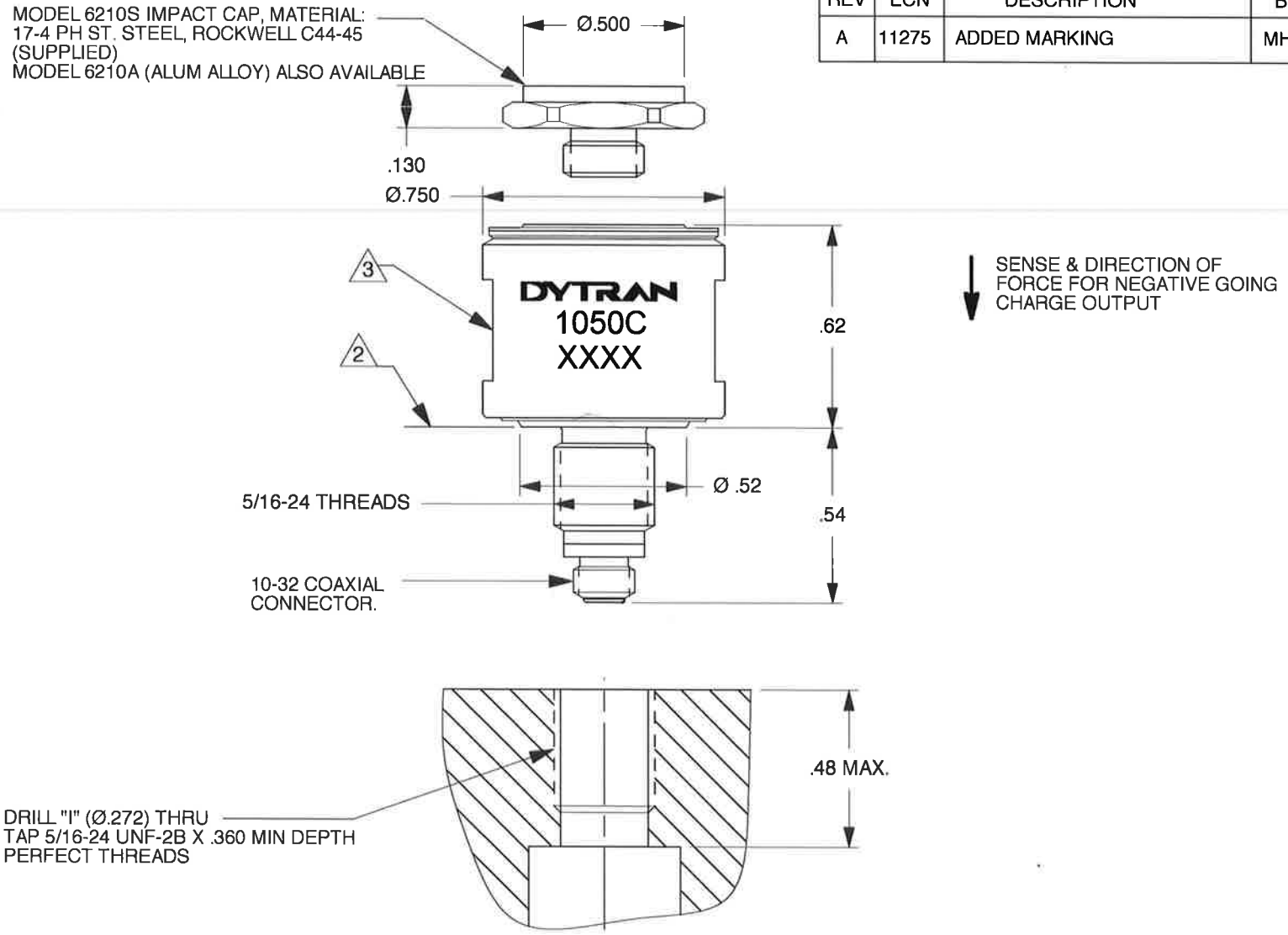
| REV | ECN | DESCRIPTION | BY/DATE | CHK | APPR |
|---|---|---|---|---|---|
| A | 11275 | ADDED MARKING | MH 01/22/16 | EM | LN |




3 WRENCH FLATS: 11/16 (.687) ACROSS FLATS X .31 HIGH.

2 IT IS IMPORTANT THAT BOTTOM SURFACE OF SENSOR BE IN INTIMATE CONTACT. INSPECT FOR BURRS, ETC.

1 PREPARE FLAT SURFACE OVER Ø.62 MINIMUM AREA BY GRINDING, SPOTFACING, LAPPING ETC. THIS AREA MUST BE FLAT WITHIN .001 TIR, TYP BOTH MODELS.

**EXCEPT AS OTHERWISE NOTED**

ALL DIMENSIONS IN INCHES
TOLERANCE: .XXX = ± .XX= ±

SURFACE FINISH EXCEPT AS NOTED √

BREAK EDGES TO DEBURR
RADIUS OR CHAMFER

- THESE DIAS ⊙ TO T.I.R.

FILLETS - MAX RAD.

DYTRAN INSTRUMENTS, INC. CHATSWORTH, CA.

MASTER
ONLY IF IN RED

| | | | | | |
|---|---|---|---|---|---|
| SCALE 2X | REV - | DATE - | ECN SEE REV BLK | | |
| DATE 12/20/00 | PART NO. - | | | | |
| DRAWN N.C. | CHECKED R.A. | MAT'L - | | | |
| APPROVED PML 08/17/07 | NEXT ASSEMBLY | USED ON 1050C | | | |

TITLE
**OUTLINE/INSTALLATION DRAWING, MODEL 1050C**

DWG NO. **127-1050C**

SHEET 1 OF 1

| Model Number 1050C | PERFORMANCE SPECIFICATION | Doc No PS1050C |
|---|---|---|
| | Force Sensors, Charge Mode | REV A, ECN 12881, 08/15/16 |

- **DYNAMIC FORCE SENSOR**
- **CHARGE MODE**
- **EXCELLENT LINEARITY**

| | | ENGLISH | | SI | |
|---|---|---|---|---|---|
| **PHYSICAL** | | | | | |
| Weight, Max. | | 1.12 | oz | 32 | grams |
| Connector | Type | Coaxial | | Coaxial | |
| | Thread | 10-32 | | 10-32 | |
| Housing | Material | Stainless steel | | Stainless steel | |
| | Isolation | Case grounded | | Case grounded | |
| Sensing Element | Material | Quartz | | Quartz | |
| | Mode | Compression | | Compression | |
| **PERFORMANCE** | | | | | |
| Sensitivity, +/-15% | | -18 | pC/Lb F | -4.05 | pC/N |
| Working Compression Range | | 5000 | Lbs.Force | 22240 | N |
| Maximum Compression | | 15000 | Lbs.Force | 66720 | N |
| Maximum Tension [1] | | 1000 | Lbs.Force | 4448 | N |
| Linearity [2] | | ± 1 | % F.S. | ± 1 | % F.S. |
| Mounted Resonance (Unloaded) | | 75 | kHz | 75 | kHz |
| Stiffness | | 11.4 | Lb/µin | 1.97 | kN/µm |
| **ENVIRONMENTAL** | | | | | |
| Coefficient Of Thermal Sensitivity | | 0.03 | %/°F | 0.05 | %/°C |
| Operating Temperature | | -100 to +500 | °F | -73 to +260 | °C |
| Maximum Vibration | | ± 2500 | g's,Peak | ± 24500 | m/s^2 Peak |
| Maximum Shock | | 10,000 | g's,Peak | 98,000 | m/s^2 Peak |
| Environmental Seal | | Welded/Epoxy | | Welded/Epoxy | |
| **ELECTRICAL** | | | | | |
| Capacitance, Nom | | 18 | pF | 18 | pF |
| Insulation Resistance | | 1.00E+12 | Ω | 1.00E+12 | Ω |
| F.S. Output Voltage | | 5 | Volts | 5 | Volts |

**This family also includes:**

| Model | Sensitivity (mV/Lb) | Range (Lbs.Force) | Max.Force (Lbs.Force) | Oper. Temp(°F) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

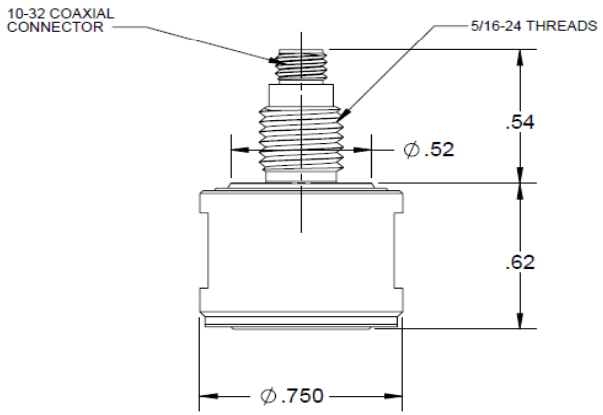
Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

1) Accredited Calibration Certificate (ISO 17025)
2) MOD 6210 STEEL IMPACT CAP
3) MOD 6204 1/4-28 MOUNTING STUD

**Notes:**

[1] Absolute maximum tension. Do not exceed in any case!
[2] Percent of full scale or any lesser range,Zero based best-fit sraight line method.




Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-1050C for more information.

21592 Marilla Street, Chatsworth, California 91311 Phone: 818.700.7818 Fax:818.700.7880 www.dytran.com