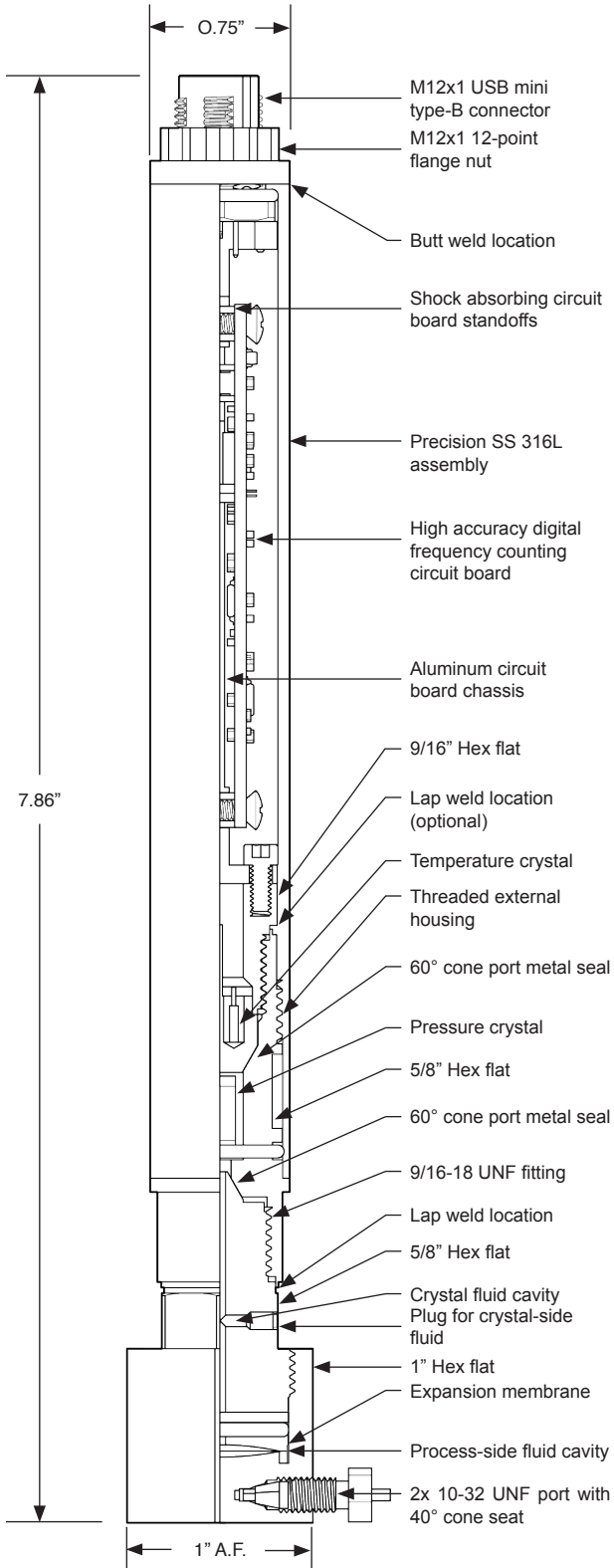


**PHASE ADVANCED SENSOR SYSTEMS
PASSION REFLECTED THROUGH DESIGN**



**XTALX LABORATORY USB QUARTZ
PRESSURE SENSOR
LUQS1-0000-1111
0000: PRESSURE RATING
1111: TEMPERATURE RATING**



SPECIFICATION HIGHLIGHTS

CALIBRATED RANGE----- 50 TO 10,000psi (3.5 TO 690 BAR)
 CALIBRATED TEMPERATURE RANGE ----- 10° TO 60°C
 PRESSURE ACCURACY ----- 0.02% F.S.
 DRIFT @ MAX TEMPERATURE & PRESSURE ----- 0.1% F.S./YEAR
 TEMPERATURE ACCURACY ----- 0.05°C
 DRIFT @ MAX TEMPERATURE & PRESSURE ----- 0.01°C/YEAR

MECHANICAL SPECIFICATIONS

WEIGHT: ----- 325 grams
 HEIGHT: ----- 200 mm (7.86")
 MAXIMUM WIDTH: ----- 25.4 mm (1.0")
 PROOF PRESSURE: ----- 103 MPa (15,000psi)
 DEAD VOLUME: ----- 0.1 mL

ELECTRICAL SPECIFICATIONS

MAXIMUM VOLTAGE RATINGS ----- -0.3 TO 24V DC
 VOLTAGE SUPPLY RANGE ----- 2.7 TO 20V DC
 CURRENT DRAW @ 25°C ----- 24 mA
 CURRENT DRAW @ F.S. TEMP ----- 25 mA
 OUTPUT ----- USB 2.0
 ESD ----- IEC 61000-4-2 ±15 kV

OSCILLATOR SPECIFICATIONS

NOMINAL REFERENCE FREQUENCY ----- 170 MHz ± 10 PPM
 NOMINAL PRESSURE FREQUENCY ----- 52 KHz ± 500 hZ
 NOMINAL TEMPERATURE FREQUENCY ----- 262 KHz ± 200 hZ

ADDITIONAL SPECIFICATIONS

STORAGE TEMPERATURE ----- -65° TO 85°C
 ACHIEVABLE RESOLUTION ----- 0.002psi
 REPEATABILITY ----- 0.01% F.S.
 NOMINAL SENSITIVITY ----- 3psi/Hz
 RESPONSE TIME ----- 0.1s
 GRAVITATIONAL EFFECTS ----- NEGLIGIBLE
 ORIENTATIONAL EFFECTS ----- NEGLIGIBLE
 ACCELERATION SENSITIVITY ----- NEGLIGIBLE
 STARTUP TIME @ 25°C ----- <1s
 PEAK INRUSH CURRENT @ 25°C ----- 25 mA
 STARTUP TIME @ F.S. TEMP ----- <1s
 PEAK INRUSH CURRENT @ F.S. TEMP ----- 26 mA