

EXTERNAL REFERENCE INPUT

Frequency
5 MHz
Level
0 dBm ±3dB into 50 ohms

OUTPUT
Frequency
10 MHz

Level
+10 dBm ±2 dB into 50 ohms

STABILITY
Aging
5 x 10⁻¹⁰ /day after 30 days operating
5 x 10⁻⁸ /year, second year, typical

Phase Noise L(f), unlocked
10 Hz -130 dBc
100 Hz -155 dBc
1 KHz -165 dBc

Temperature Stability
±1x10⁻⁸, 0° to +50°C (Ref +25°C), unlocked

Frequency Accuracy
±5x10⁻⁸ at time of shipment (+25°C)

Type 2 Loop Characteristics
Target BW: ≤1 Hz
<5 minute to within ±1x10⁻⁹ of input

MECHANICAL

Dimensions
2.375" x 2.750" x 1.1" housing with bracket,
mounting holes, Diam. 0.125"

Connectors
SMA Output, SMA Input,
Feedthru capacitors

Packaging
Solder sealed steel can

POWER REQUIREMENTS
Warm-Up Power
<6 Watts for 5 minutes

Total Power
<4 Watts at +25°C

Supply Voltage
+15 VDC

ADJUSTMENT
Mechanical, for Frequency Accuracy

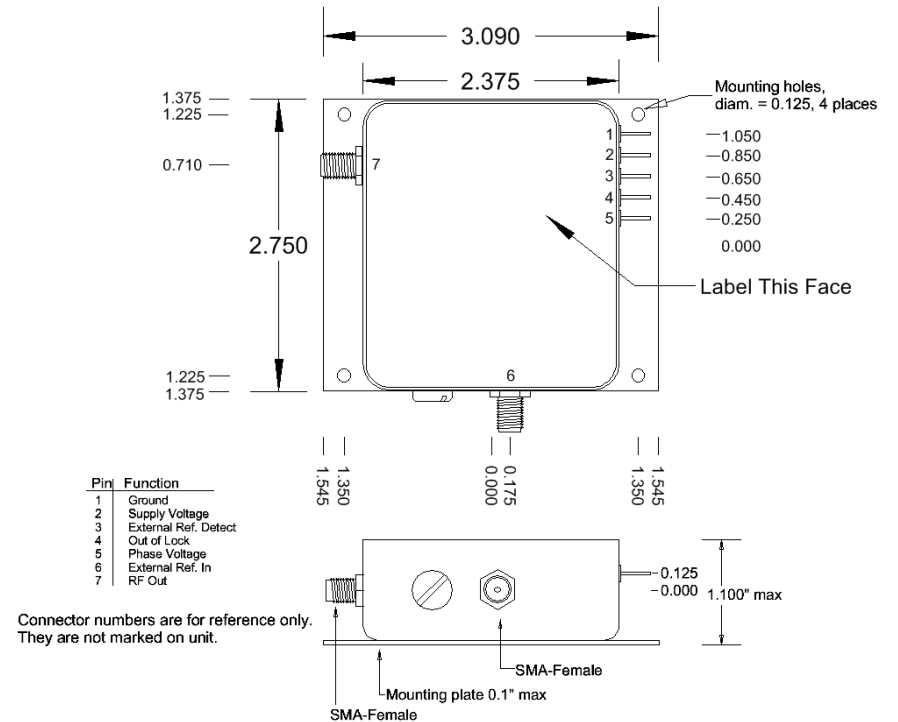
±5 x 10⁻⁷, typical

CRYSTAL
Type
10 MHz SC-cut

STATUS BITS
External Reference Loss
TTL, Low = loss of reference
Oscillator will "self " center
when reference is lost.

Out-of-Lock Alarm
TTL, Low = Locked

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-09-17	Draft	BH	BB



Wenzel Associates, Inc.
Austin, Texas

Title: **10 MHz-SC Phase Locked Crystal Oscillator**

P/N: 501-31300	Rev: -	Date: 11-09-17	Drawn:	Ref:
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1