

OUTPUT

Frequency

20 MHz

Level

+13 dBm ±2 dB into 50 ohms

EXTERNAL REFERENCE INPUT

Frequency

10 MHz

Level

0 dBm ±3dB into 50 ohms

STABILITY

Aging

5×10^{-10} /day after 30 days operating

5×10^{-8} /year, second year, typical

Phase Noise L(f), unlocked

10 Hz -115 dBc

100 Hz -140 dBc

1 KHz -160 dBc

Temperature Stability

$\pm 5 \times 10^{-8}$, 0° to +50°C (Ref +25°C), unlocked

Frequency Accuracy

$\pm 5 \times 10^{-8}$ at time of shipment (+25°C)

Type 2 Loop Characteristics

Target BW: ≤ 1 Hz

<5 minute to within $\pm 1 \times 10^{-9}$ 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

+12 VDC

ADJUSTMENT

Mechanical, for Frequency Accuracy

$\pm 5 \times 10^{-7}$, typical

CRYSTAL

Type

20 MHz SC-cut

STATUS BITS

External Reference Loss

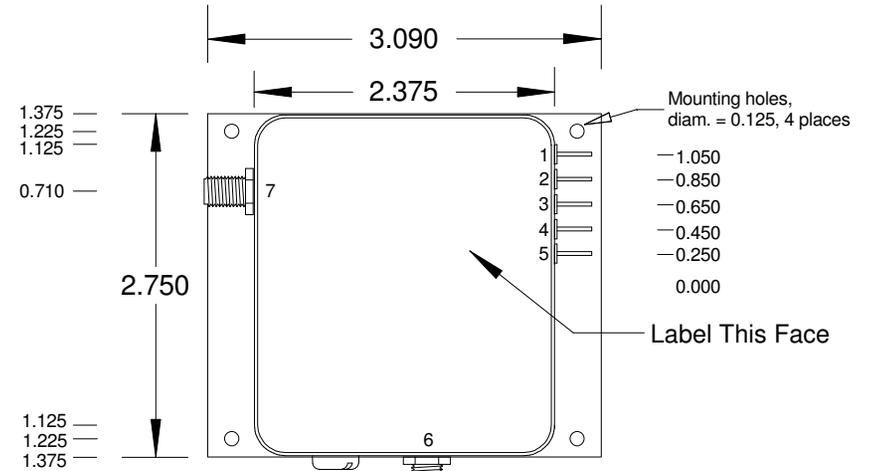
TTL, Low = loss of reference

Oscillator will "self" center when
reference is lost.

Out-of-Lock Alarm

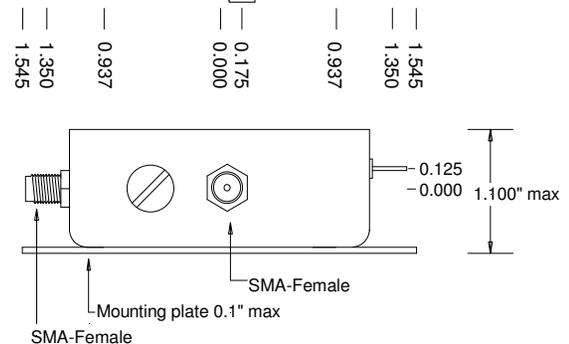
TTL, Low = Locked

REV	DATE	REVISION RECORD	DWN	AUTH
-	12-08-16	Draft	Liz	AR



Pin	Function
1	Ground
2	Supply Voltage
3	External Ref. Detect
4	Out of Lock
5	Phase Voltage
6	External Ref. In
7	RF Out

Connector numbers are for reference only.
They are not marked on unit.



Wenzel Associates, Inc.

Austin, Texas

Title: 20 MHz-SC Phase Locked Crystal Oscillator				
P/N: 501-30529	Rev: -	Date: 12-08-16	Drawn:	Ref: 500-14118
Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1