EXTERNAL REFERENCE INPUT

Frequency

10 MHz, ±5 x 10^{-7}

Level

+7 dBm ±5 dB into 50 ohms

OUTPUT

Frequency

30 MHz

Level

+13 dBm ±2 dB into 50 ohms

STABILITY

Aging

1 x 10^{-7} /year after 30 days operating, typ

Phase Noise L(f), unlocked

1 Hz	-85 dBc/Hz
10 Hz	-115 dBc/Hz
100 Hz	-140 dBc/Hz
1 KHz	-160 dBc/Hz
10 KHz	-165 dBc/Hz

Temperature Stability

±5 x 10^{-8}, 0° to +65°C (Ref +25°C), unlocked

Type 2 Loop Characteristics

Target BW: ≤1 Hz

<5 minute to within ±1 x 10^{-9} of input

Harmonics

-30 dBc

Sub-Harmonics

-50 dBc

PLL Divider Products

-60 dBc

Non-Harmonic Spurious

-70 dBc

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

30 MHz SC-cut

STATUS BITS

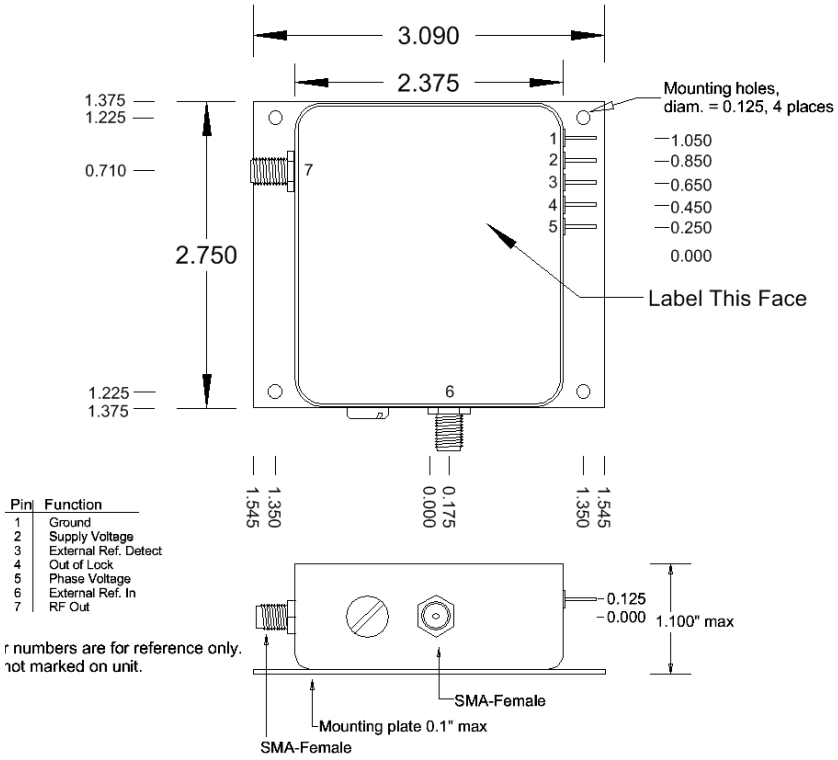
External Reference Loss

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
-	05-26-16	Initial Release	Liz	



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

r numbers are for reference only.
not marked on unit.

Wenzel Associates, Inc.
Austin, Texas

Title:
30 MHz-SC Phase Locked Crystal Oscillator

P/N:	Rev:	Date:	Drawn:	Ref:
501-30074	**-**	**5-26-16**		

Tolerances: (except as noted) Dimensions are in inches	0.XX Dec:	0.XXX Dec:	FSCM:	Page 1 of 1
	±0.030"	±0.010"	62821	