

INPUT

Frequency

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

Level

+7 dBm ± 5 dB into 50 Ohms

OUTPUT

Frequency

10 MHz, Dual

Level

+10 dBm ± 2 dB into 50 ohms

STABILITY

Output Phase Noise L(f)

Free-Running

1 Hz -100 dBc
 10 Hz -130 dBc
 100 Hz -158 dBc
 1 kHz -172 dBc
 10 kHz -172 dBc

Aging

$\pm 1 \times 10^{-7}$ per year after 30 days
 operating, typical

Temperature Stability

$\pm 1 \times 10^{-8}$ free-running from 0 to +50°C,
 (Ref. +25°C)

Harmonics

-30 dBc

Sub-Harmonics and Products

-50 dBc

Non-Harmonic Spurious

-70 dBc

Phase Lock Alarm

TTL

Locked: +3.5 VDC to +5.2 VDC (Hi)

Out-of-Lock: +0.8 VDC max (Lo)

Phase Lock Voltage Monitor

Voltage monitor pin supplied

MECHANICAL

Dimensions

2.5 x 3.5 x .8"

Connectors

SMA's and solder pins on side
 Feed-thru terminals for lock alarm,
 supply and phase lock voltage monitor

Packaging

Machined aluminum housing or
 machined brass housing

Mounting

Shock mount patterns on sides

Thru holes, 4 places

Threaded inserts on base, 4 places

POWER REQUIREMENTS

Supply Voltage

+15 VDC

Warm-Up Power

10 Watts at start-up for 5 minutes
 at +25°C

Total Power

6 Watts at steady state +25°C

ADJUSTMENT

Loop BW

Target Bandwidth: < 1 Hz

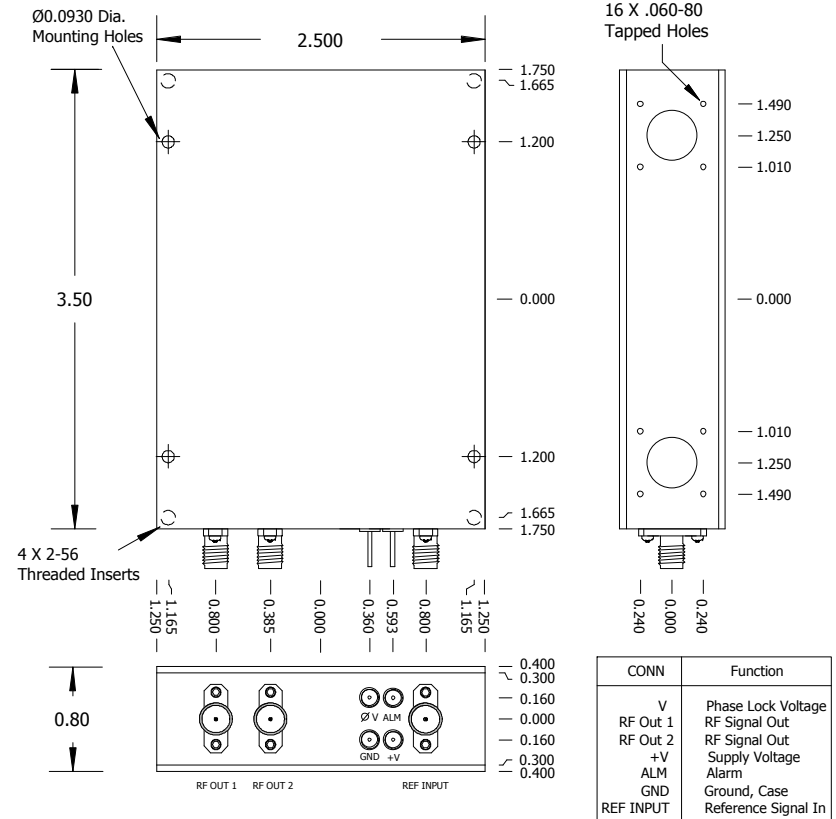
Type 2 Loop, < 5 minutes to $\pm 1 \times 10^{-9}$
 of input

CRYSTAL

Type

SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	11-07-02	Draft	PAC	LR
A	05-16-03	Added dimensions on drawing	SS	PAC
B	01-10-05	Phase, Power, Connectors, drawing	SS	LR



Wenzel Associates, Inc.
Austin, Texas

Title:
10 MHz-SC Dual Output Phase Lock Crystal Oscillator

P/N: 501-10136	Rev: B	Date: 01-10-05	Drawn:	Ref: 501-07499E
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Tolerances: (except as noted) Dimensions are in inches	0.XX Dec: ±0.030"	0.XXX Dec: ±0.010"	FSCM: 62821	Page 1 of 1
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