

INPUT

Frequency

10 MHz, $\pm 2 \times 10^{-6}$

Level

+7 dBm ± 5 dB into 50 ohms

OUTPUT

Frequency

100 MHz, dual

Level

+10 dBm ± 2 dB into 50 ohms, each output

STABILITY

**Output Phase Noise L(f)
(Free-Running)**

100 Hz -128 dBc/Hz
 1 kHz -155 dBc/Hz
 10 kHz -170 dBc/Hz
 100 kHz -171 dBc/Hz

Aging

$\pm 1 \times 10^{-6}$ per year after 30 days operating, typical

Temperature Stability

$\pm 5 \times 10^{-7}$ free-running from 0 to +50°C, (Ref. +25°C)

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

SPECTRAL PURITY

Harmonics

≤ -30 dBc

Sub-Harmonics

≤ -50 dBc

PLL Divider Products

≤ -60 dBc

Spurious

≤ -70 dBc

MECHANICAL

Dimensions

2.5 x 3.5 x 0.8"

Connectors

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

Packaging

Nickel-plated machined aluminum housing

Mounting

Tapped holes on sides, 16 places
 Through holes, 4 places
 Threaded inserts on base, 4 places

POWER REQUIREMENTS

Supply Voltage

+15 VDC $\pm 5\%$

Warm-Up Power

≤ 8 Watts at start-up for 5 minutes at +25°C

Total Power

≤ 5 Watts at steady state +25°C

ADJUSTMENT

Loop BW

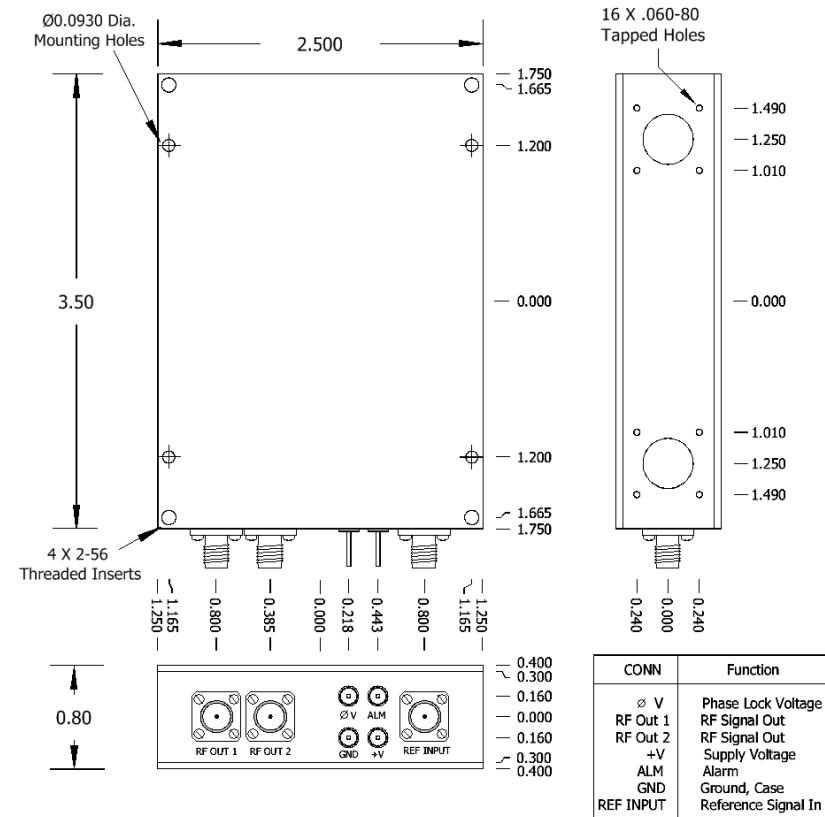
Target Bandwidth: 60 Hz
 Type 2 Loop

CRYSTAL

Type

SC-cut

REV	DATE	REVISION RECORD	DWN	AUTH
-	02-28-11	Initial Release	PAC	



Wenzel Associates, Inc.

Austin, Texas

Title: Standard 100 MHz-SC Phase Lock Crystal Oscillator				
P/N: 501-23680	Rev: -	Date: 02-28-11	Drawn:	Ref: SPR
Tolerances: (except as noted) Dimensions are in inches		0.XX Dec: ± 0.030"	0.XXX Dec: ± 0.010"	FSCM: 62821
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