

REV	DATE	REVISION RECORD	DWN	AUTH
-	03-03-00	Draft	BH	
A	09-05-07	Mechanical Dimensions, Package	BH	

INPUT

Frequency
100 MHz

Level
+7 dBm ±3 dB into 50 Ohms

OUTPUT

Frequency
100 MHz

Level
+13 dBm ±2 dB into 50 ohms

STABILITY

Output Phase Noise L(f)
10 kHz -165 dBc

Aging

±1 x 10⁻⁶ per year after 30 days operating, typical

Temperature Stability

±5 x 10⁻⁷ 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

2.25 x 3.10 x .72"

Connectors

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

Packaging

Machined aluminum housing

POWER REQUIREMENTS

Supply Voltage

+15 VDC

Warm-Up Power

7 Watts at start-up for 5 minutes at -25° C
5 Watts at steady state +25° C

ADJUSTMENT

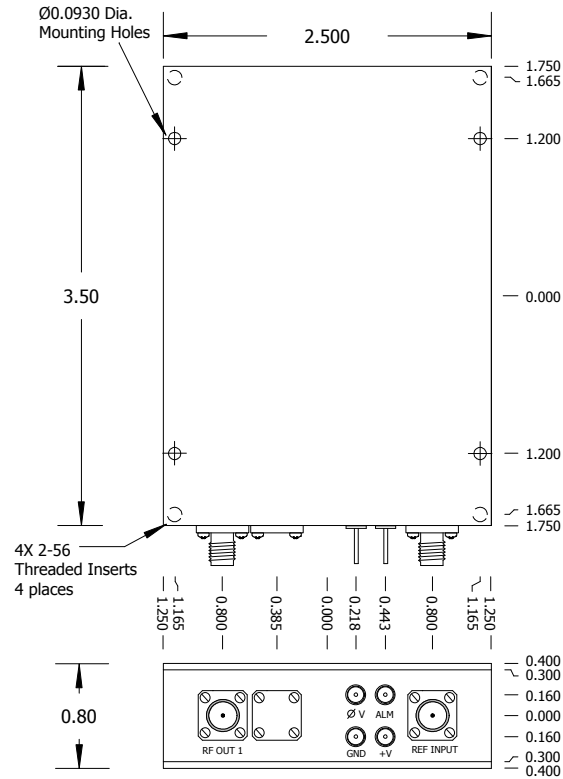
Loop BW

Factory Set, Type 2 Loop

CRYSTAL

Type

SC-cut



CONN	Function
∅ V	Phase Lock Voltage
RF Out	RF Signal Out
+V	Supply Voltage
ALM	Alarm
GND	Ground, Case
REF INPUT	Reference Signal In



Wenzel Associates, Inc.

Austin, Texas

Title:

100 MHz-SC Phase Lock Crystal Oscillator

P/N: 501-07801	Rev: A	Date: 09-05-07	Drawn:	Ref: 500-07372
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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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