

INPUT

Frequency

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

Level

+7 dBm ± 5 dB into 50 ohms

OUTPUT

Frequency

100 MHz

Level

+13 dBm ± 2 dB into 50 ohms

STABILITY

Output Phase Noise L(f)

(Free-Running)

100 Hz -130 dBc/Hz

1 kHz -155 dBc/Hz

10 kHz -168 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)

Harmonics

-30 dBc

Sub-Harmonics and Products

-50 dBc

Non-Harmonic Spurious, typical

-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 0.8"

Connectors

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

Packaging

Machined aluminum housing

Mounting

Threaded inserts on sides, 16 places

Through holes, 4 places

Threaded inserts on base, 4 places

POWER REQUIREMENTS

Supply Voltage

+15 VDC

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: <10 Hz

Type 2 Loop

CRYSTAL

Type

SC-cut

OTHER

Test Data

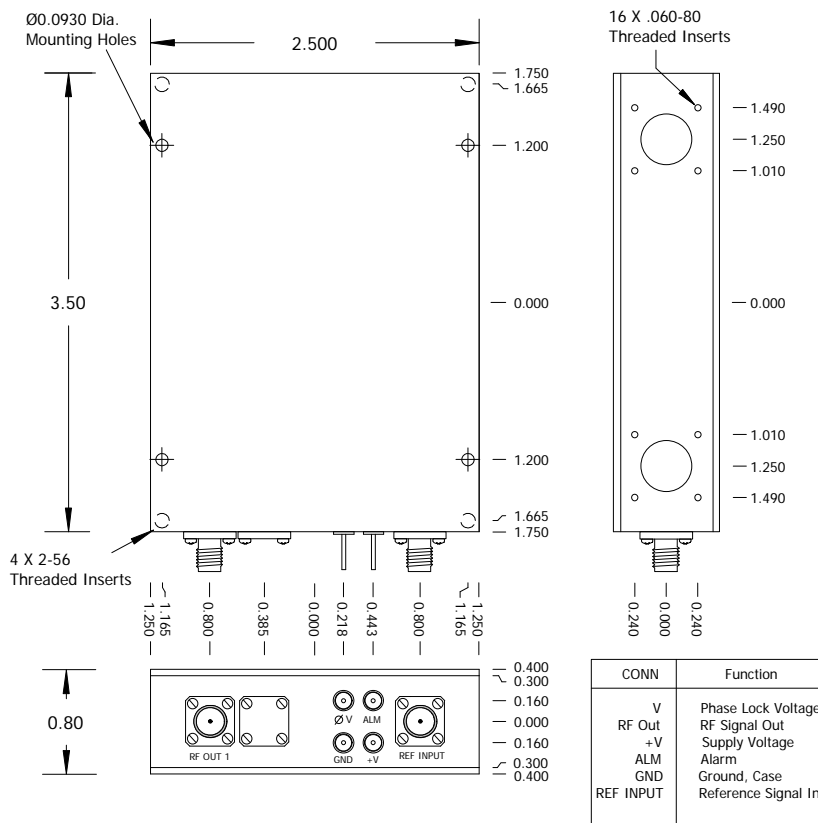
Output Level

Temperature Stability (free-running)

Phase Noise (free-running)

RoHS

This part is RoHS compliant



Wenzel Associates, Inc.

Austin, Texas

Title:

100 MHz-SC Phase Lock Crystal Oscillator (RoHS)

P/N:

501-31062

Rev:

-

Date:

07-18-17

Drawn:

Ref:

Tolerances:
(except as noted)
Dimensions are in inches

0.XX Dec:
 ± 0.030 "

0.XXX Dec:
 ± 0.010 "

FSCM:
62821

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