

Miteq LP-1000-B-0-15P-SP

Phase-Locked Coaxial Resonator Oscillator



\$895.00

In Stock

Qty Available: 1

Used and in Excellent Condition

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PHASE-LOCKED COAXIAL RESONATOR OSCILLATOR

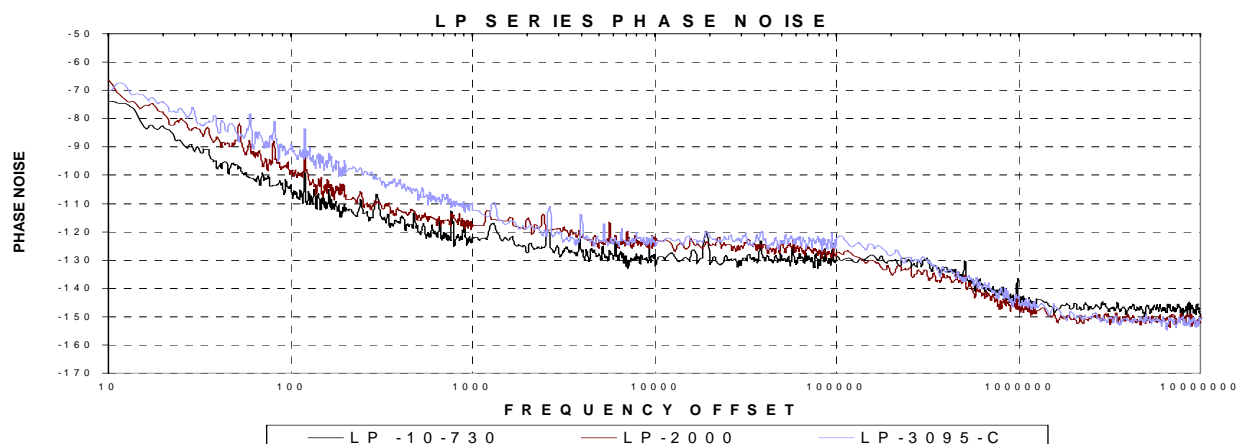
LP SERIES: 500 – 3200 MHz

FEATURES

- High Q ceramic resonator
- Low phase noise
- Low susceptibility to vibration
- Three-year warranty
- 100% burn-in and temperature testing

OPTIONS

- Higher output power
- 1 – 20 MHz input reference (dual-loop design)
- Internal crystal reference
- Integrated relay alarm
- Mounting plate (specify with order)



ELECTRICAL SPECIFICATIONS

Output frequency range	500 – 3200 MHz
Output power	+13 dBm minimum
Output power variation	±1.5 dB maximum
Phase noise	See graphs
Harmonic output	-20 dBc maximum
Spurious output	-70 dBc maximum
Input reference frequency	50 – 550 MHz (Reference Option A) 1 – 20 MHz (optional)
Input power level	0 ±3 dBm
Input impedance	50 ohms
Load VSWR	1.5:1 nominal
DC power requirements (Notes 1 and 2)	+12,+15, +20 volts @ 250 mA

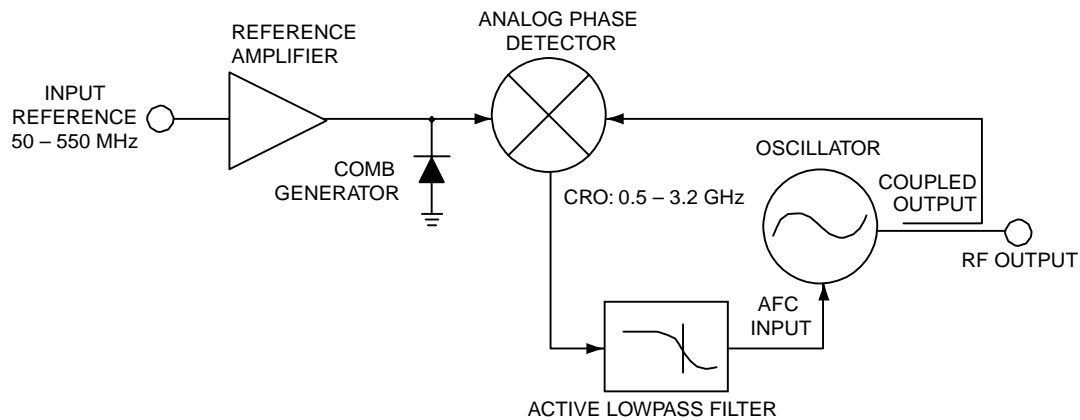
Notes:

1. Add 50 mA @ +V for internal crystal reference.
2. Add 120 mA @ +V and 220 mA @ +5 volts for external 1–20 MHz reference.



PHASE-LOCKED COAXIAL RESONATOR OSCILLATOR

BLOCK DIAGRAM



ORDERING INFORMATION

Standard (input reference 50 – 550 MHz) Add B for internal reference option from table below.

LP - - - - - P

Reference freq. (MHz) Output freq. (MHz) Ref. Option Alarm Option Supply Voltage

Optional (dual loop, input reference 1 – 20 MHz)

LP - - - - - - P

Input freq. (MHz) Reference freq. (MHz) Output freq. (MHz) Ref. Option Alarm Option Supply Voltage

REFERENCE OPTIONS

A. External reference (50–550 MHz).

B. ± 5 ppm (-20 to +70°C).

Note: For Option B specify output frequency to 6 decimal places.

1 to 20 MHz Ref. Input: (0 to +60°C).

ALARM OPTIONS

0. 0 volts in-lock, +V out-of-lock.

3. TTL Low in lock, High out of lock

4. TTL High in lock, Low out of lock

MECHANICAL SPECIFICATIONS

Outline drawings 165654

Weight..... 250 grams nominal

RF connectors SMA female

DC connectors..... Feedthru filter

ENVIRONMENTAL SPECIFICATIONS

Temperature

Operatingsee reference option

Storage -45 to +85°C

Humidity 95% at 40°C noncondensing

Shock (survival) 30 g's, 10 ms pulse

Vibration (survival) 20 to 2000 Hz random to 4 g's



PHASE-LOCKED COAXIAL RESONATOR OSCILLATOR

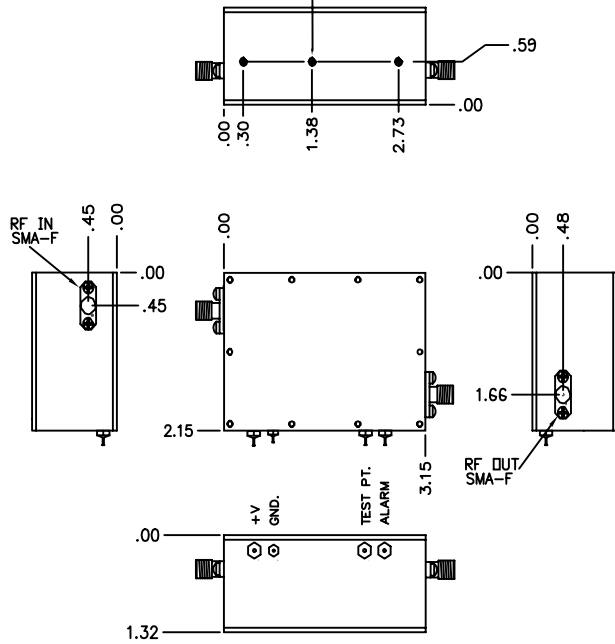
Outline Drawings

165654

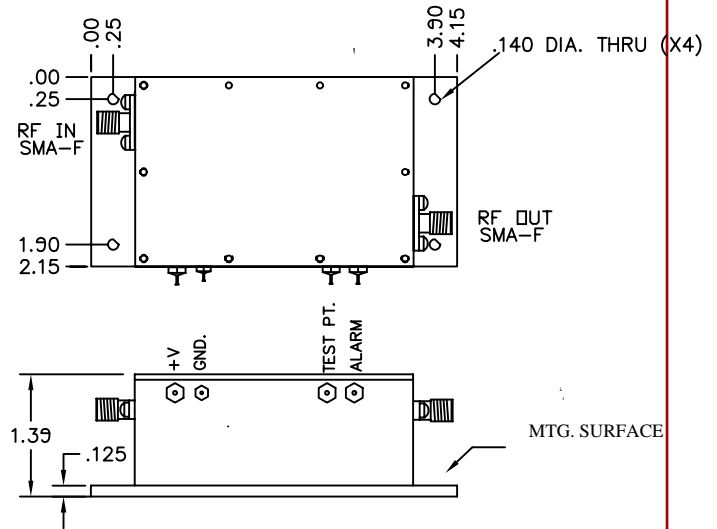
LP SERIES

OPTION A (EXTERNAL REF.)

MOUNTING: 4-40 X .20 D. (X3)

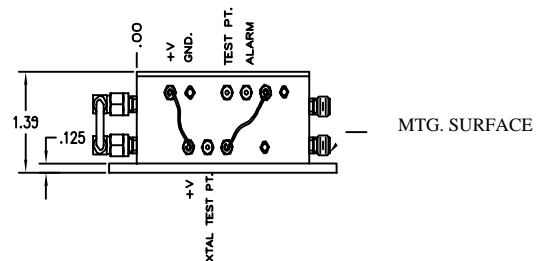
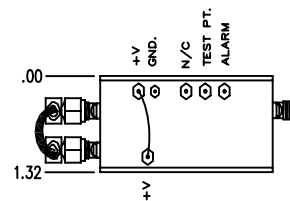
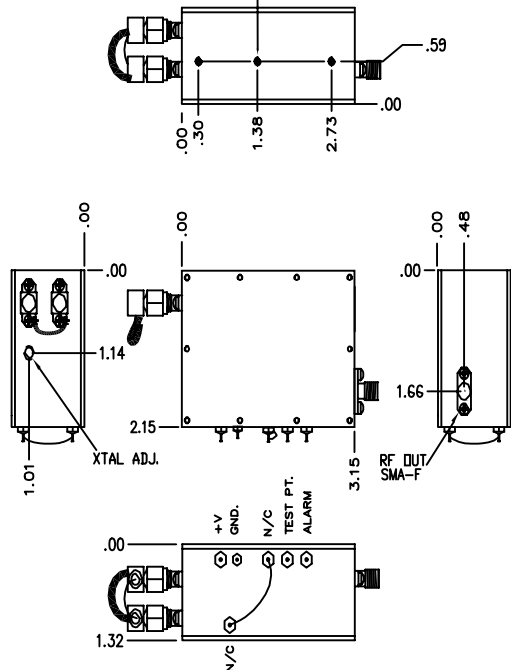


OPTIONAL MOUNTING PLATE CONFIGURATION



OPTION B,C (INTERNAL REF.)

MOUNTING: 4-40 X .20 D. (X3)



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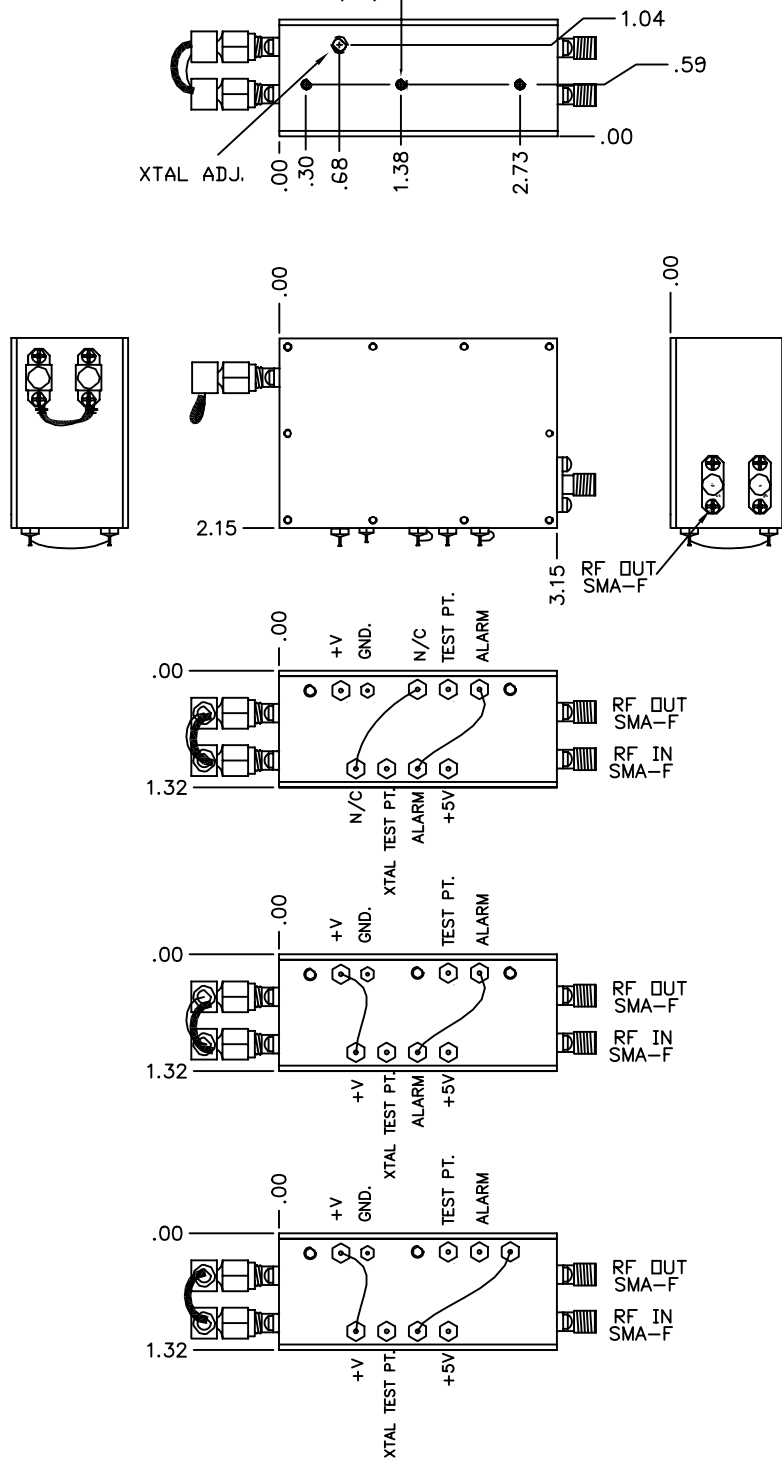
WN-177692 8/17/2007

PHASE-LOCKED COAXIAL RESONATOR OSCILLATOR

Outline Drawings

OPTION -5,-10 (DUAL LOOP)

MOUNTING: 4-40 X .20 D. (X3)



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