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Find the *L-3 / Narda / Miteq LP-1000-B-0-15P-SP* at our website: *Click HERE*

# PHASE-LOCKED COAXIAL RESONATOR OSCILLATOR

## LP SERIES: 500 – 3200 MHz

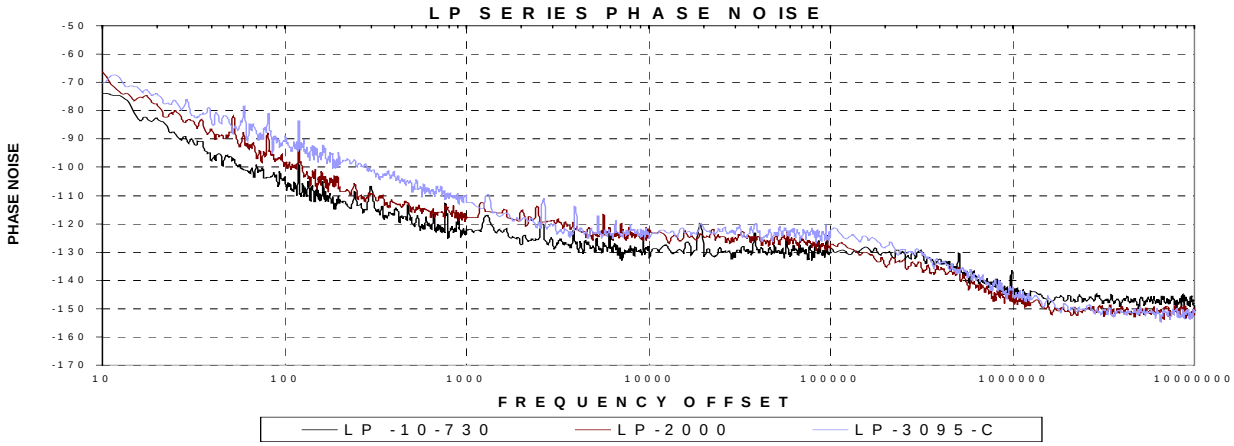



## FEATURES

- 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

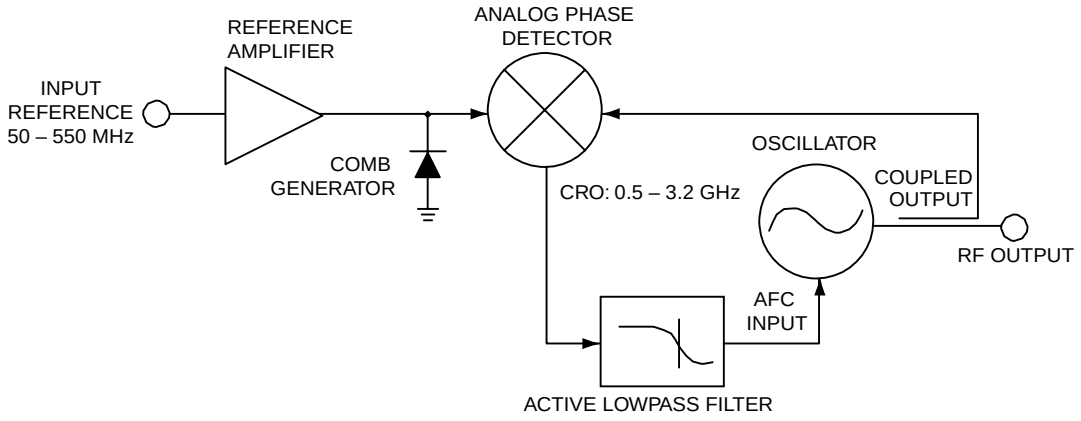
| | |
|---|---|
| Output frequency range | 500 – 3200 MHz |
| Output power | +13 dBm minimum |
| Output power variation | ±1.5 dB maximum |
| Phase noise | See graphs |
| Harmonic output | -20 dBc maximum |
| Spurious output | -70 dBc maximum |
| Input reference frequency | 50 – 550 MHz (Reference Option A)<br>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
Operating .....see 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


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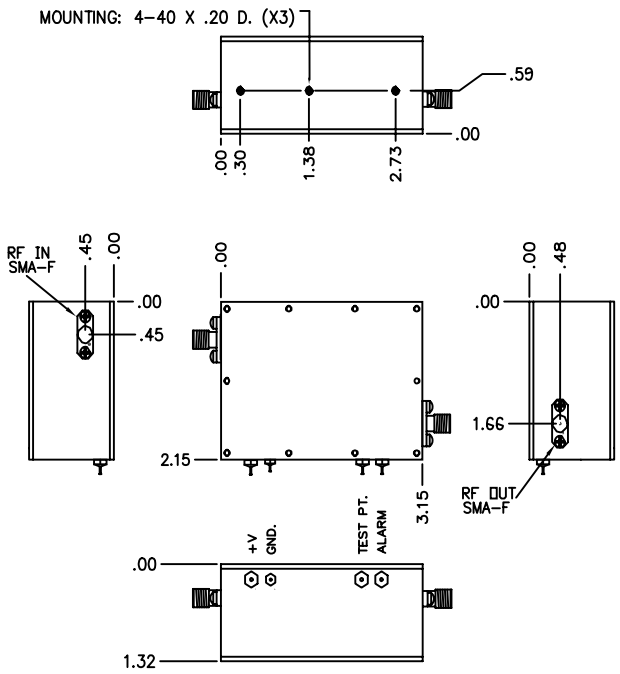
# PHASE-LOCKED COAXIAL RESONATOR OSCILLATOR

## Outline Drawings

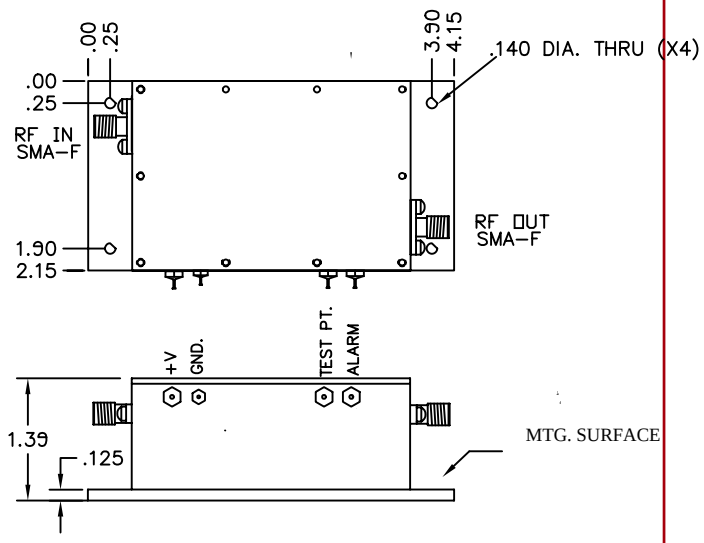
**165654**

**LP SERIES**

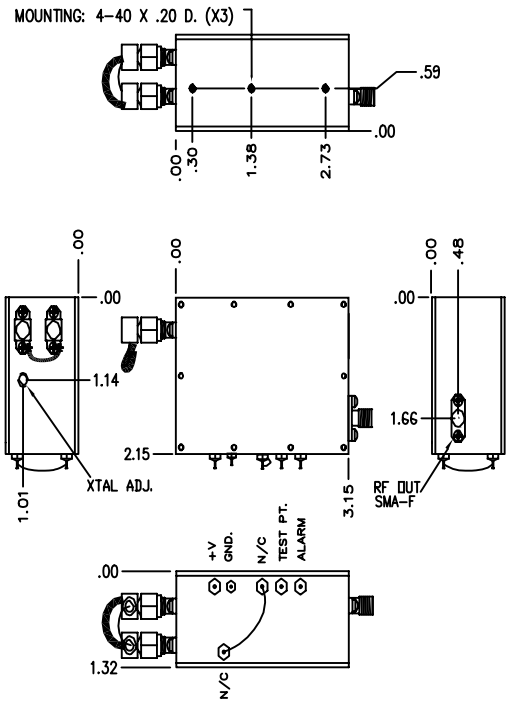
OPTION A (EXTERNAL REF.)

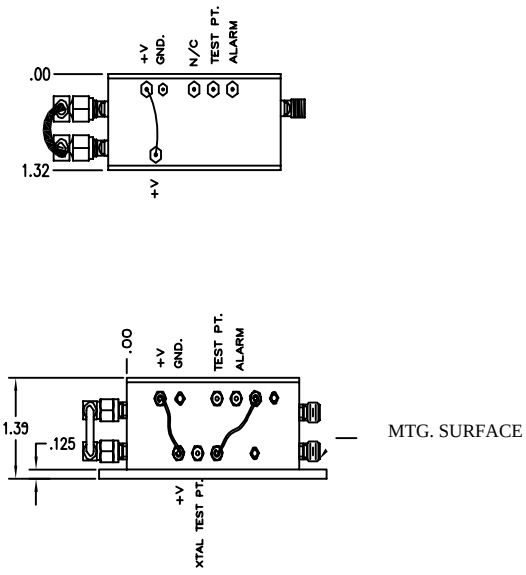



OPTIONAL MOUNTING PLATE CONFIGURATION




OPTION B,C (INTERNAL REF.)

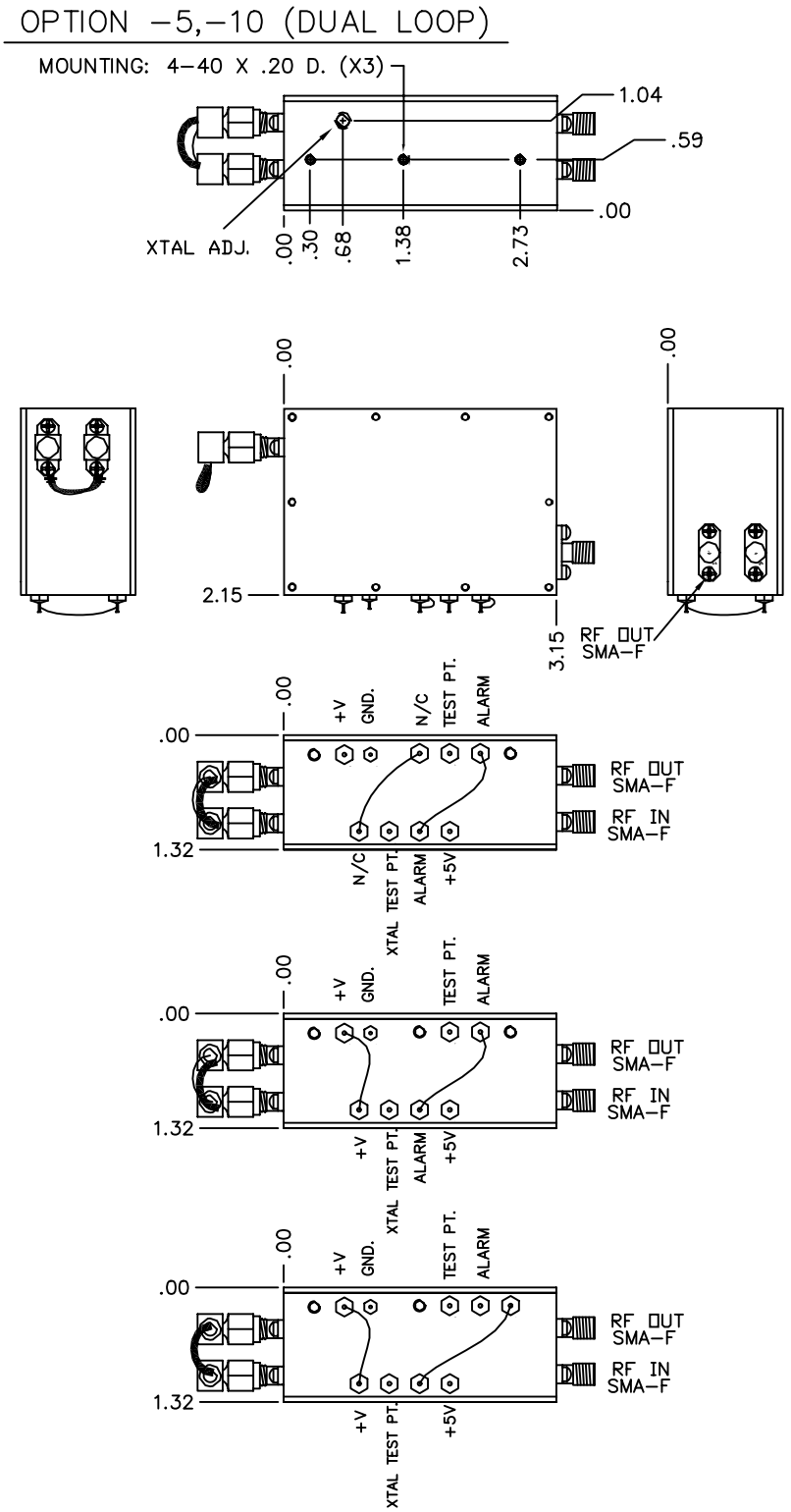





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## Outline Drawings





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