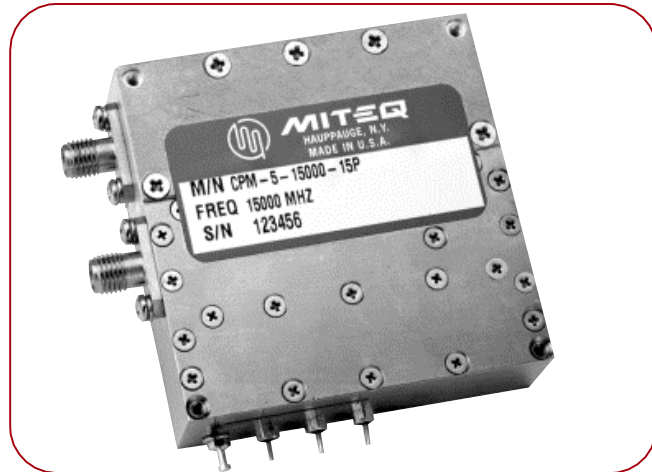


MULTIPLIED LOCKED COAXIAL RESONATOR OSCILLATOR

CPM SERIES: 4-15 GHz

FEATURES

- High Q ceramic resonator
- Low phase noise
- Low vibration susceptibility
- Internally regulated
- Small package
- CP-I with internal crystal reference
- 100% burn-in and temperature testing
- Three-year warranty



MITEQ's CPM Series oscillator is a high performance, compact, low cost, phase-locked oscillator with output frequencies of 4 to 15 GHz. The low profile package allows for easy system integration. Low vibration sensitivity makes the oscillator ideal for both mobile and airborne applications. The CPM is available above 15 GHz with an external doubler.

ELECTRICAL SPECIFICATIONS

Output frequency range	
CP Series	4-15 GHz
Output power	+13 dBm
Output harmonics	-50 dBc maximum
Output spurious	-70 dBc maximum
F _{ref} (integer multiple F ₀)	10-200 MHz @ 0 +/- 3 dBm
Input impedance	50 ohms
Load VSWR	1.5:1
DC power requirements (+11 V minimum)	11 to 15 volts
Phase noise	See graphs

ORDERING INFORMATION

CPM - _____ - _____ - _____ P

External Reference
Frequency (MHz)

Output Frequency
(MHz)

D.C. Supply
(+volts)



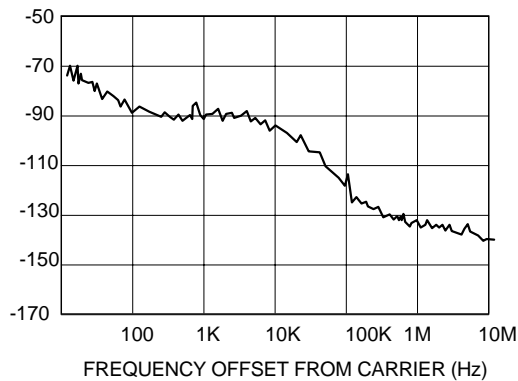
MULTIPLIED LOCKED COAXIAL RESONATOR OSCILLATOR

ENVIRONMENTAL CONDITIONS

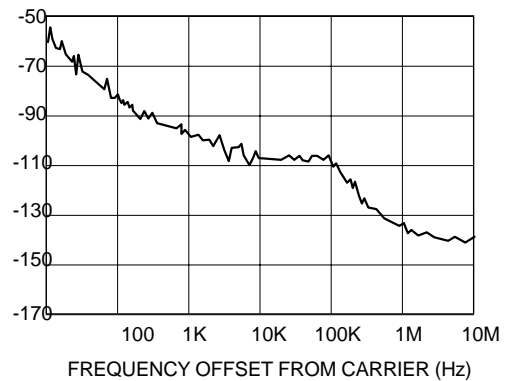
Temperature	
Operating	-20 to +70°C
Storage	-40 to +85°C
Humidity	95% at 40°C noncondensing
Shock (survival)	30 g's, 10 ms pulse
Vibration (survival)	20 to 2000 Hz random to 4 g's rms
Weight	120 grams (CPM Series)

TYPICAL TEST DATA

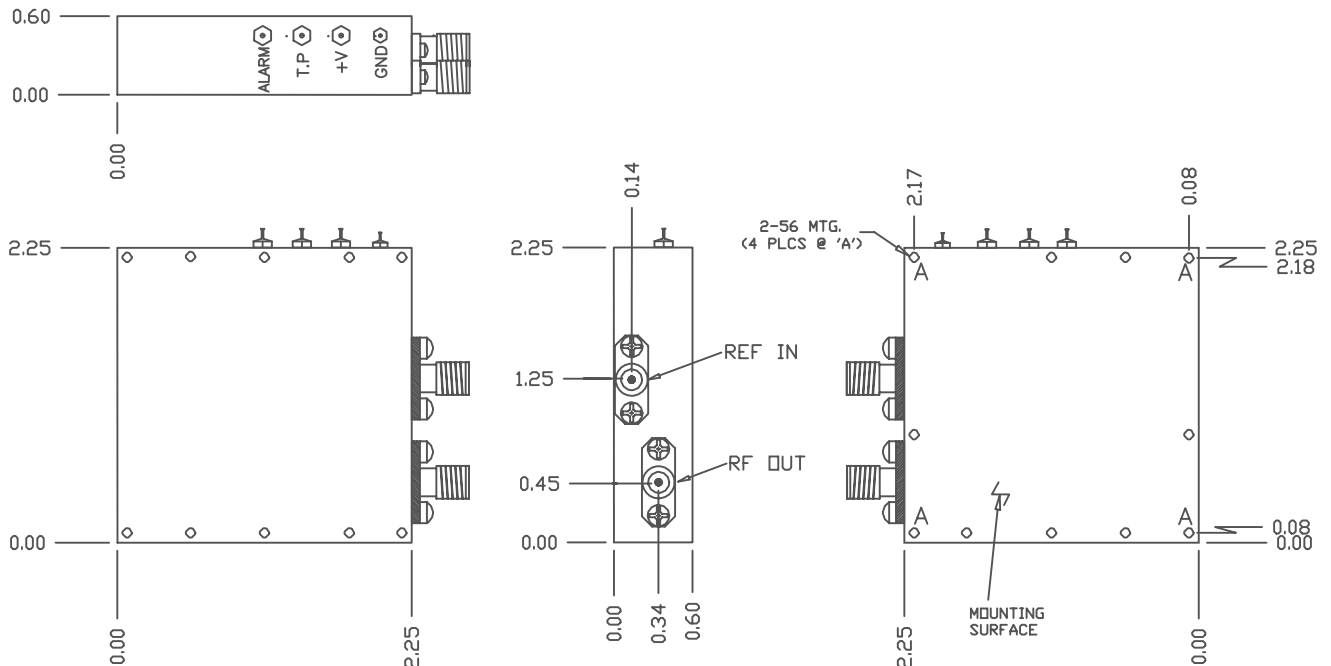
CPM-10-8000-15P
TYPICAL PHASE NOISE
8 GHz WITH 10 MHz INPUT REFERENCE



CPM-15990-15P
TYPICAL PHASE NOISE
15.99 GHz WITH 102.5 MHz INPUT REFERENCE



CPM SERIES OUTLINE DRAWING



NOTE: Dimensions shown in brackets [] are in millimeters

