MICROWAVE DYNAMICS

Pulsed Modulated Oscillator

MLO-1000-XX.XX (1-18 GHz)
MLO-1070-XX.XX (18-45 GHz)

Features

- High power output 1 watt.
- High efficiency
- Excellent rise and fall time

Application

Radars

Description

The pulsed modulated oscillator consists of free-running DRO, pulse modulator and output amplifier, MLO features total control of power consumption with enable control and duty cycle though a DB-9 connector.

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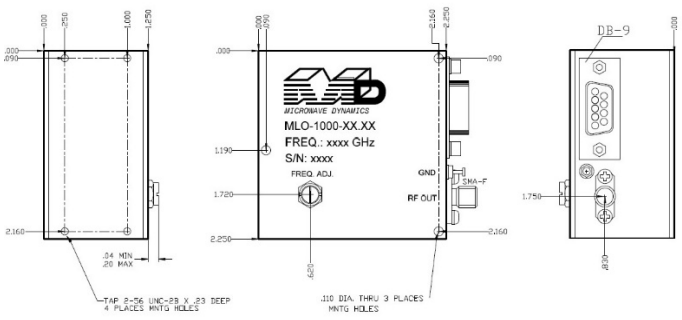
Specifications

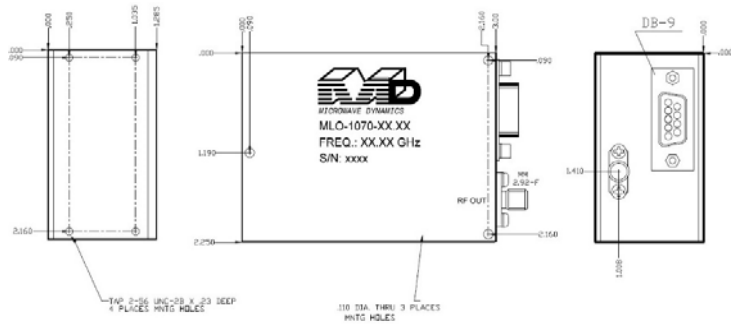
Fixed Frequency range: 1-45 GHz	Modulating Pulse: TTL compatible
Power Output: +13 to +30dBm (optional)	RF ON/OFF ratio: 40 dB
Pulse Rise Time: 35 nsec	Enable control: TTL
Pulse Fall Time: 25 nsec	Harmonic Outputs: -25dBc
Pulse Width: 0.2 µsec	Frequency Stability: 3 ppm/C
Pulse Repetition Rate: 100 kHz max	Frequency Pulling: +/-90 ppm max
Duty Cycle: Up to 1 %	Supply Voltage: +8 to +12VDC, the average current as low as 15mA with 1% duty cycle

Outline Drawings

MLO-1000 (1-18 GHz)



MLO-1070 (18-45 GHz)



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