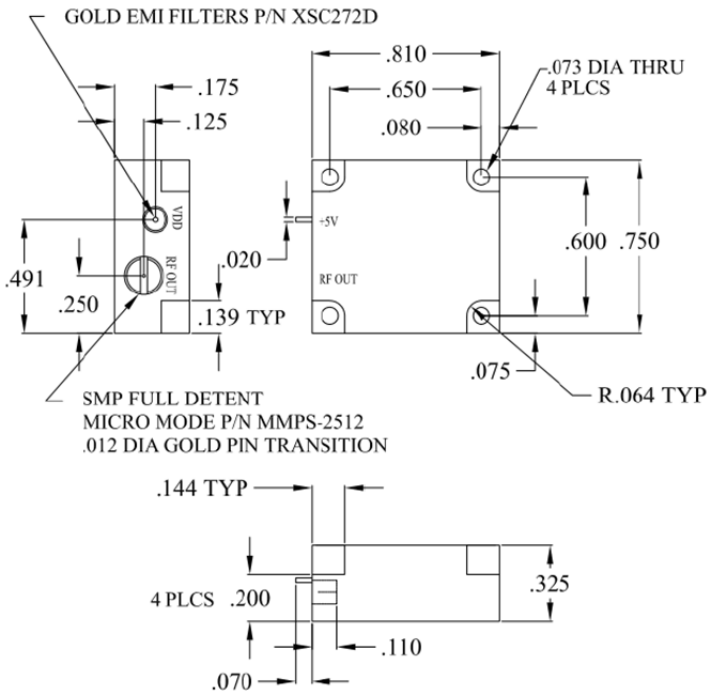


Dielectric Resonant Oscillator, 18-40 GHz Family +13dBm min Output Power, 15Volts



**Units: inches
Not to scale**

Options:
-E: Electric tuning
-M: Mechanical tuning

FEATURES:

- Customer Specified Frequency
- Packaged MESFET or BJT devices
- Low Phase Noise
- Low Microphonic
- High Vibration Operation
- SMT Fabrication
- Internal Voltage Regulation

Order Examples: RDRO-28-6d-15V-M-s12

Description: (Dielectric Resonant Oscillator, 28GHz, +6dBm Output Power, 15Volts, Mechanical Tuning)

Specifications		
Frequency Range	18 to 40 GHz	18 to 40 GHz
Tuning	Mechanical	Electrical
Tuning Range, Min.	±10 MHz	±5 MHz
Power Output, Min.	±13 dBm / 6dBm	±13 dBm
Power Output, Max	3 dB	3 dB
Frequency Accuracy, Max.	0.1%	0.1%
Operating Temperature	-50 to +100 °C	-50 to +100 °C
Storage Temperature	-55 to +125 °C	-55 to +125 °C
Temperature Stability, Max.	±0.05%	±0.05%
Harmonics, Below Carrier, Max.	-20 dBc	-20 dBc
Spurious Output Below Carrier, Max.	-60 dBc	-60 dBc
Phase Noise		
10 KHz offset	-80 dBc/Hz	-80 dBc/Hz
100 KHz offset	-95 dBc/Hz	-95 dBc/Hz
Input Voltage	+15±0.5 VDC	+15±0.5 VDC
Input Current, Max.	75 mA	75 mA
Connector	SMA Female standard	SMA Female standard
Weight, Max.	3.0 oz.	3.0 oz.
Size (inches)	standard	standard

Note 1: See Phase Noise Plots (page 2)

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Typical Phase Noise

