

# Dielectric Resonator Oscillator Model MDR2560

Free Running, Mechanically Tuned, Moisture Sealed 4.5 to 16.0 GHz

## Specifications <sup>(1)</sup>:

Frequency Range: <sup>(2)</sup>	4.5 - 16.0 GHz
Mechanical Tuning Bandwidth (min.)	±1500 ppm
Stability (max.) <sup>(3)</sup>	5 ppm/°C
Pulling, 12 dB RL (max.)	±50 ppm
Pushing (max.)	1 ppm/Volt
Harmonics (max.)	-20 dBc
Spurious (max.)	-70 dBc
Output Power (min.) <sup>(4)</sup>	+10 dBm

Frequency (GHz)	Outline
4.5 to 7.5	OD-33
7.5 to 11.0	OD-23
11.0 to 16.0	OD-13

Phase Noise (typ.)	7 GHz	10 GHz	12 GHz	16 GHz
10 kHz Offset, dBc/Hz	-95	-93	-88	-82
100 kHz Offset, dBc/Hz	-125	-122	-117	-111
1 MHz Offset, dBc/Hz	-145	-142	-140	-135

Input DC <sup>(5)</sup>	+10 to +15 VDC @ 100 mA max.
Operating Temperature	-40 to +85 °C
RF Connector	SMA Female
DC Connector	Solder Pin

- Notes:**
1. Specifications labeled "min." or "max." are guaranteed in a 50 Ohm system over the specified temperature range.
  2. Output frequency must be specified.
  3. Averaged over the full temperature range.
  4. Higher output power is available.
  5. Input voltage is internally regulated.
  6. Package must be verified by Spectrum Microwave.

