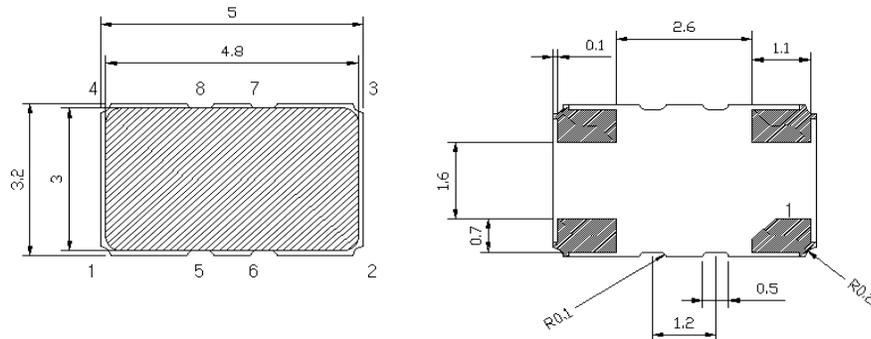


VT53 SUBMINIATURE SURFACE MOUNT VCTCXO



FEATURES

- 10 to 26 MHz**
- +3.0 ±5% Vdc**
- 5.0 mm x 3.2 mm**
- 1.25 mm tall**
- 2.0 mA maximum**
- Surface mount**

Programming Pad Ceramic Package

TYPICAL P/N VT53-13M0

13M0 = 13.000000 MHz

VT53 = Voltage Tune only

ELECTRICAL SPECIFICATIONS

Frequency Range:	10 - 26 MHz
Input Voltage:	3.0 Vdc ±5%
Calibration Tolerance:	±2.5 ppm at +23 ±2°C
Temperature Stability:	±2.5 ppm -30°C to +85°C
Voltage Stability:	±0.3 ppm (VDD ±5%)
Load Stability:	±0.2 ppm (RL ±5%)
Load Capacitance:	10 pF Typical
Aging at +25°C	<1.0 ppm/year
Operating Temperature:	-30°C to +85°C
Output Voltage:	0.7 VP-P minimum
Output Format:	Clipped Sinewave
Input Current:	2 mA maximum
Control Voltage Range:	0.5 to 2.5 Vdc
Voltage Tuning Range:	±3.0 ppm minimum ±10 ppm typical

Harmonics

2nd harmonic	-3 dBc
3rd harmonic	-6 dBc
4th harmonic	-10 dBc

Phase Noise (Typical)

-115 dBc/Hz	at 100 Hz Offset
-135 dBc/Hz	at 1.0 KHz Offset
-140 dBc/Hz	at 10 KHz Offset

FREQUENCY STABILITY vs TEMPERATURE

Typical Characteristics

±1.5 ppm	0 to +50°C
±2.0 ppm	-25°C to +75°C
±2.5 ppm	-30°C to +85°C

PAD CONNECTIONS

- PAD 1 = Control Voltage
- PAD 2 = Ground
- PAD 3 = Output
- PAD 4 = +3.0 Vdc