

RVX1490M



SMD Voltage Control Crystal Oscillator

High Performance Low Noise VCXO in 14 x 9 mm Surface Mount Package.

Product description

This high performance VCXO in industry standard 14 x 9 mm packages up to 500 MHz is ideal for the highest performance communications equipment. It is optimized for low close-in phase noise to address the stringent requirements of wireless RF applications and delivers ultra low RMS phase jitter required for high-capacity wireline communications.



Applications

- RRH/RRU and basestations (especially LTE)
- SONET/SDH
- DSL/ADSL
- Communications
- Ethernet
- Wi-Fi
- WiMAX/LTE

Features

- Excellent temperature stability
- Ultra Low Jitter 0.05 to 0.3 ps integrated 12 kHz to 20 MHz
- Wide frequency range
- Close-in Phase Noise optimized for Wireless RF applications
- Cost-effective SMD packages with narrow pads compatible to J-Lead packages
- Low profile 2.6 mm height available

Specifications

1.0 SPECIFICATION REFERENCES

Line	Parameter	Description
1.1	Model Description	RVX1490M VCXO
1.2	RoHS Compliant	Yes
1.3	Reference Number	
1.4	Rakon Part Number	
1.5	Package Type	Type 1 (Standard), or Type 2 (Reduced profile), or Type 3 (Low profile)

2.0 FREQUENCY CHARACTERISTICS

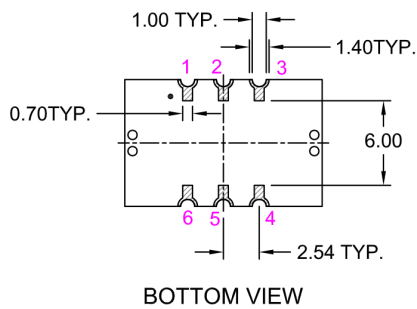
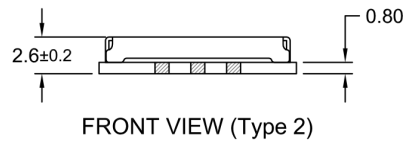
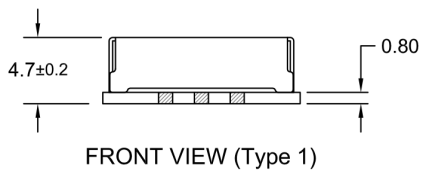
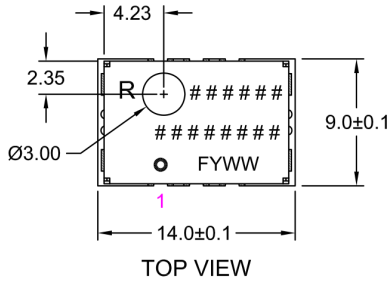
Line	Parameter	Test Condition	Value	Unit
2.1	Frequency		50 to 500	MHz
2.2	Operating Temperature Range		-40 to 85	°C
2.3	Frequency Stability	Including Temperature range, Supply variation, Load variation and 15 years aging at 25°C	±30 to 50	ppm
2.4	Temperature Stability	Over operating temperature range only	±10 to 20	ppm

3.0 POWER SUPPLY

Line	Parameter	Test Condition	Value	Unit
3.1	Supply Voltage (VDD)	With a tolerance of ±10% (not available with all configurations)	3.3	V
3.2	Supply Current		55 to 80	mA

Drawing Name: XO/VCXO 1490M T6 Model Drawing

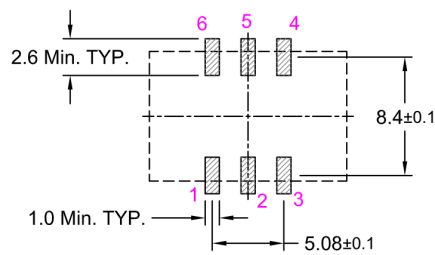
MODEL OUTLINE



NOTE :

1. MARKING INFORMATION IS DETAILED IN THE SPECIFICATION.
2. PIN CONNECTIONS ARE DETAILED IN THE SPECIFICATION

RECOMMENDED PAD LAYOUT - Top View



TITLE: XO/VCXO 1490M T6 MODEL

FILENAME: CAT664

TOLERANCES:

RELATED DRAWINGS:

REVISION: C

XX

X.X = ±0.2

DATE: 23-May-13

X.XX = ±0.10

SCALE: 2 : 1

X.XXX

X°

Millimetres

Hole

rakon

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