RVX5032R

The RVX5032R VCXO combines high frequency, low phase noise (1.0 ps typical, 12 kHz to 20 MHz) and tight frequency stability. This compact SMD (Surface Mount Device) has a 5.0 x 3.2 mm footprint, offering precise frequency stability. It caters to a wide spectrum of applications with a broad selection of industry-standard frequencies, ranging from 8 to 1500 MHz. The RVX5032R boasts a short lead time, ensuring swift project availability.

Features

- Fast sample turnaround
- LVCMOS, LVPECL, or LVDS output options
- 1.0 ps typ. RMS phase jitter (12 kHz to 20 MHz)
- Wide frequency range

Applications

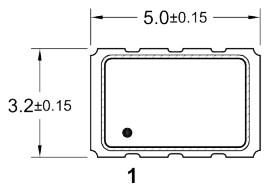
- Ethernet (10G/40G)
- Communications
- Base Stations
- DSL/ADSL
- Wi-Fi

5.0 x 3.2 x 1.2 mm

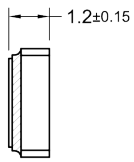
Standard Specifications

Parameter	Min.	Typ.	Max.	Unit	Test Condition / Description
Nominal frequency	8 8		200 1500	MHz MHz	LVCMOS LVPECL or LVDS
Temperature range	-40		85	°C	
Temperature stability			±35	ppm	Temperature range: -40 to 85°C
Frequency stability			±50	ppm	Including frequency calibration, operating temperature range, supply and load variations, and 10 years ageing at 25°C
Absolute pull range (APR)	±50			ppm	Referenced at Vc = 1.65V
Supply voltage (V_{DD})		2.5 3.3		V	With a tolerance of ±5%
Supply current			30 65 40	mA mA mA	For LVCMOS For LVPECL For LVDS
RMS phase jitter[1]		1.0	2.0	ps	Integrated from 12kHz to 20MHz

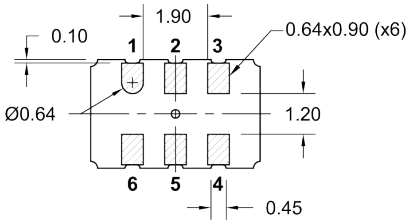
Model Outline and Recommended Pad Layout



TOP VIEW



SIDE VIEW



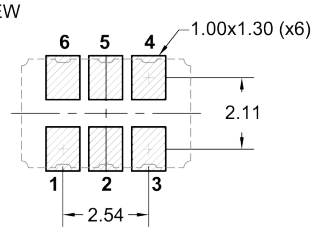
BOTTOM VIEW

PIN CONNECTIONS

1	Vc
2*	E/D or NC
3	GND
4	Output
5*	NC (LVCMOS) or Complementary Output (LVPECL/LVDS)
6	V_{DD}

* Depending on specifications

RECOMMENDED PAD LAYOUT
- TOP VIEW



NOTE: Outline unit is mm.

[1] RMS phase jitter value varies depending on the output type and frequency.