

RVX2520R

The RVX2520R VCXO combines high frequency, low RMS phase jitter (1.0 ps typical, 12 kHz to 20 MHz) and tight frequency stability in a 2.5 x 2.0 mm SMD package. Available in hundreds of industry-standard frequencies from 8 to 1500 MHz, and has a short lead time.

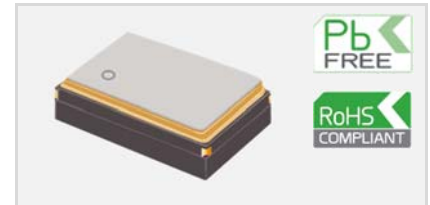
Features

- Fast sample turn around
- LVC MOS, 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

2.5 x 2.0 mm



Standard Specifications

Parameter	Min.	Typ.	Max.	Unit	Test Condition / Description
Nominal frequency	8		200	MHz	LVC MOS
	8		1500	MHz	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 aging at 25°C
Absolute pull range (APR)	±30			ppm	For a control voltage range of 0.3 to 3.0V
Supply voltage (V _{DD})		2.5		V	With a tolerance of ±5%
		3.3			
Supply current			30	mA	For LVC MOS
			65	mA	For LVPECL
			40	mA	For LVDS
RMS phase jitter		1.0	2.0	ps	Integrated from 12kHz to 20MHz

Model Outline and Recommended Pad Layout

1
TOP VIEW

1.0 Max.

SIDE VIEW

RECOMMENDED PAD LAYOUT - TOP VIEW

BOTTOM VIEW

PIN CONNECTIONS

1	V _c
2*	E/D or NC
3	GND
4	Output
5*	NC (LVC MOS) or Complementary Output (LVPECL/LVDS)
6	V _{DD}

* Depending on specifications

NOTE:
Outline unit is mm.