

RVX2520R

The RVX2520R 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 2.5 x 2.0 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 RVX2520R boasts a short lead time, ensuring swift project availability.

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	-40°C to 105°C is available on request
Temperature stability			±21	ppm	Temperature range: -40 to 85°C
Frequency stability			±35	ppm	Including frequency calibration, operating temperature range, supply and load variations, and 1 year ageing at 25°C. 10 years ageing available on request
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		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.

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