

## RVX2520P

The RVX2520P VCXO combines high frequency, low RMS phase jitter (0.5 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 for fast delivery and reduced inventory.

### Features

- Fast sample turn around
- LVC MOS, LVPECL, or LVDS output options
- 0.5 ps typ. RMS phase jitter (12 kHz to 20 MHz)
- Wide frequency range

### Applications

- High Speed ADC/DAC/SERDES
- Broadcast Video
- Radio Systems
- DSL/ADSL
- PON/FTTH

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	
Frequency stability			±35	ppm	Including frequency calibration, operating temperature range, supply and load variations, and 10 years aging at 25°C
Total pull range	±65			ppm	For a control voltage range of 0.3 to 3.0V
Supply voltage (V <sub>DD</sub> )		2.5		V	With a tolerance of ±5%
		3.3		V	With a tolerance of ±10%
Supply current			30	mA	For LVC MOS
			65	mA	For LVPECL
			40	mA	For LVDS
RMS phase jitter		0.5	1.0	ps	Integrated from 12kHz to 20MHz

### Model Outline and Recommended Pad Layout

**TOP VIEW**

**SIDE VIEW**

**RECOMMENDED PAD LAYOUT - TOP VIEW**

**BOTTOM VIEW**

**PIN CONNECTIONS**

<b>1</b>	V <sub>c</sub>
<b>2*</b>	E/D or NC
<b>3</b>	GND
<b>4</b>	Output
<b>5*</b>	NC (LVC MOS) or Complementary Output (LVPECL/LVDS)
<b>6</b>	V <sub>DD</sub>

\* Depending on specifications

**NOTE:**  
Outline unit is mm.