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. It is available in hundreds of industry-standard frequencies from 8 to 1500 MHz, and has a short lead time.

Features

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

Applications

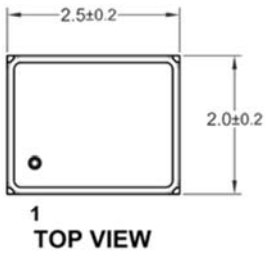
- High Speed ADC/DAC/SERDES
- Broadcast Video
- Radio Systems
- DSL/ADSL
- PON/FTTH

2.5 x 2.0 mm

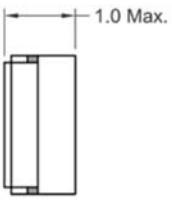
Standard Specifications

Parameter	Min.	Typ.	Max.	Unit	Test Condition / Description
Nominal frequency	8 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		0.5	1.0	ps	Integrated from 12kHz to 20MHz

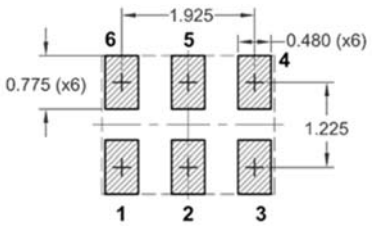
Model Outline and Recommended Pad Layout



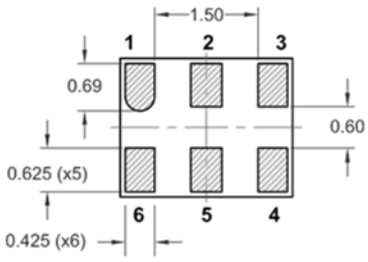
TOP VIEW



SIDE VIEW



RECOMMENDED PAD LAYOUT - TOP VIEW



BOTTOM VIEW

PIN CONNECTIONS

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

NOTE:
Outline unit is mm.

sales@rakon.com