

RCV2520Q

The RCV2520Q Selectable VCXO combines small size and low RMS phase jitter with the ability to select output frequency from one of two factory-configured values. By combining two oscillator specifications into one part, the RCV2520Q can be used to reduce unique part count and provide software-upgradable hardware.

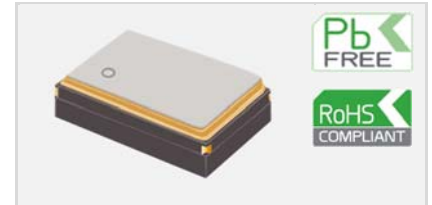
Features

- Up to four frequency selections in one part
- LVC MOS, LVPECL, or LVDS output options
- 1.0 ps RMS phase jitter (12kHz to 20MHz)
- Wide frequency range
- Fast sample turn around

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
Number of frequency selections		2			
Nominal frequency 1	8		1500	MHz	Dual: FSO = 0
Nominal frequency 2	8		1500	MHz	Dual: FSO = 1
Operating 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 (VDD)		2.5 3.3		V V	With a tolerance of ±5% With a tolerance of ±10%
Supply current			30 65 40	mA mA mA	For LVC MOS For LVPECL For LVDS
RMS phase jitter (Integrated from 12kHz to 20MHz)		1.0 0.5	2.0 1.0	ps ps	For certain configurations

Model Outline and Recommended Pad Layout

TOP VIEW

SIDE VIEW

RECOMMENDED PAD LAYOUT - TOP VIEW

PIN CONNECTIONS

1	Vc
2	FSO
3	GND
4	Output
5*	NC (LVC MOS) or Complementary Output (LVPECL/LVDS)
6	VDD

* Depending on specifications

NOTE:
Outline unit is mm.

BOTTOM VIEW