RXO2520R

The RXO2520R XO combines high frequency, low RMS phase jitter (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 RXO2520R boasts a short lead time, ensuring swift project availability.

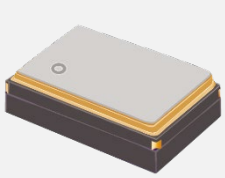
Features

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

Applications

- Ethernet PHY
- Datacentre/Enterprise/SAN
- WLAN, PCIe, Fibre Channel
- DSL/ADSL
- Wi-Fi

2.5 x 2.0 mm



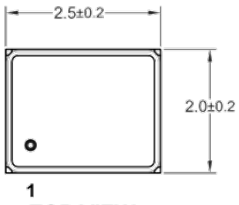
Pb FREE

RoHS COMPLIANT

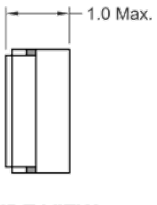
Standard Specifications

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	-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
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[1]		1.0	2.0	ps	Integrated from 12kHz to 20MHz

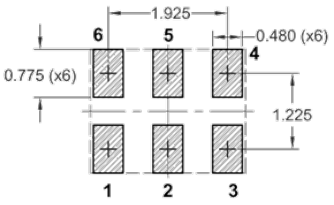
Model Outline and Recommended Pad Layout



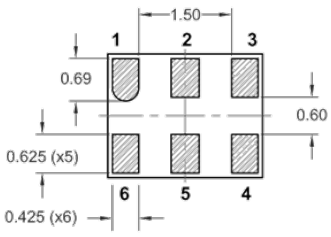
TOP VIEW



SIDE VIEW



RECOMMENDED PAD LAYOUT - TOP VIEW



BOTTOM VIEW

PIN CONNECTIONS

1*	E/D or NC
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.

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