

RXO7050R

The RXO7050R 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 7.0 x 5.0 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 RXO7050R boasts a short lead time, ensuring swift project availability.

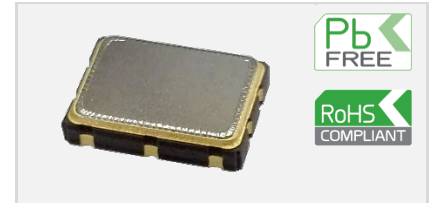
Features

- Fast sample turnaround
- LVC MOS, 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

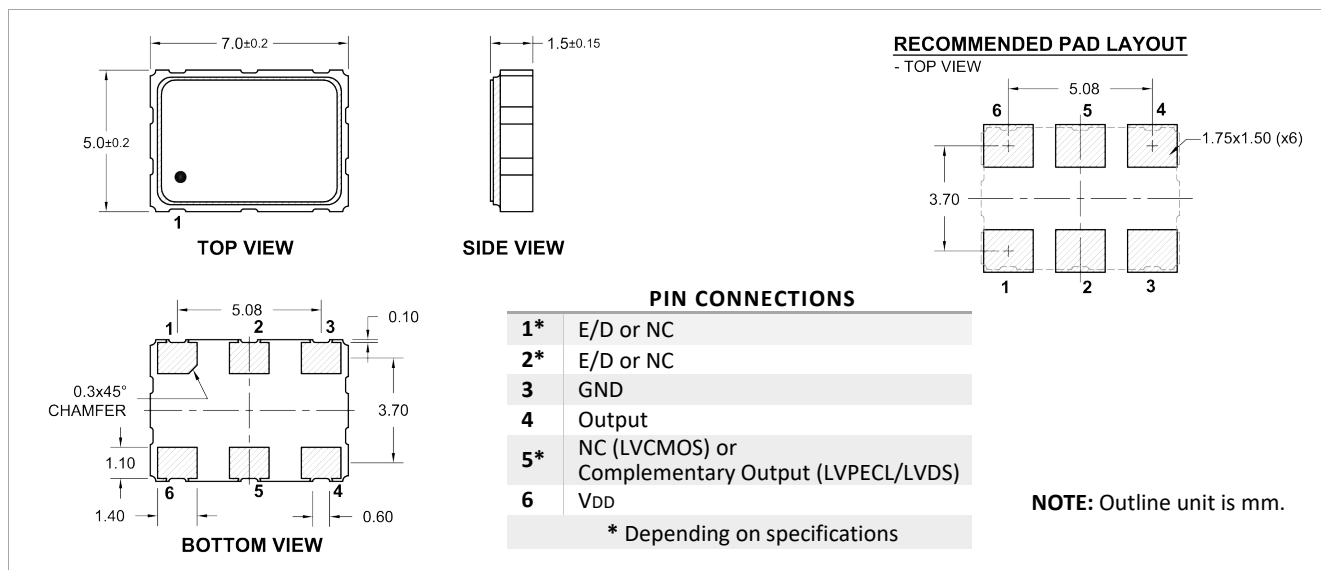
7.0 x 5.0 x 1.5 mm



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			±35	ppm	Temperature range: -40 to 85°C
Frequency stability			±50	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		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 RMS phase jitter value varies depending on the output type and frequency.