

RXO7050R

The RXO7050PR is a high frequency and low jitter performance XO. Its RMS phase jitter achieves 1.0 ps typ. (12 kHz to 20 MHz offset). This 7.0 x 5.0 mm SMD footprint tight frequency stability XO is available in hundreds of industry-standard frequencies from 8 to 1500 MHz, and has a short lead time.

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	
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
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		1.0	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 (LVC MOS) or Complementary Output (LVPECL/LVDS)
6	V _{DD}

* Depending on specifications

NOTE:
Outline unit is mm.