

RVX7050M

The RVX7050M is a high frequency and low phase noise performance VCXO. Its RMS phase jitter achieves 0.1 ps typ. (12 kHz to 20 MHz offset) with a high-end operating temperature of 105°C. This 7.0 x 5.0 mm SMD footprint tight frequency stability VCXO is available in hundreds of industry-standard frequencies from 8 to 800 MHz, and has a short lead time.

Features

- Fast sample turnaround
- LVC MOS, LVPECL, or LVDS output options
- 0.1 ps typ. RMS phase jitter (12 kHz to 20 MHz)
- Wide frequency range

Applications

- Base stations
- Ethernet
- DSL/ADSL
- WiMAX/W-LAN
- Wi-Fi

7.0 x 5.0 x 1.6 mm



Standard Specifications

Parameter	Min.	Typ.	Max.	Unit	Test Condition / Description
Nominal frequency	8		200	MHz	LVC MOS
	8		800	MHz	LVPECL or LVDS
Temperature range	-40		105	°C	
Temperature stability			±25	ppm	Temperature range: -40 to 85°C
			±30	ppm	Temperature range: -40 to 105°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 (VDD)		3.3		V	With a tolerance of ±5%
Supply current			30	mA	For LVC MOS
			85	mA	For LVPECL
			50	mA	For LVDS
RMS phase jitter (@122.88 MHz)		0.1	0.15	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 (LVC MOS) or Complementary Output (LVPECL/LVDS)
6	VDD

* Depending on specifications

NOTE:
Outline unit is mm.