

# **RXO2016M**

The RXO2016M Crystal Oscillator (XO) is engineered to deliver exceptional jitter performance, achieving a low RMS phase jitter of 0.1 ps max. (measured from 12 kHz to 20 MHz offset). This compact XO in size 2.0 x 1.6 x 0.75 mm, is an ideal Surface-Mount Device (SMD) for space-constrained designs.

This XO offers various frequency stability options over a wide operating temperature range, accounting for initial frequency calibration, supply and load variations, and one-year ageing effects. Supporting a broad spectrum of industry-standard frequencies from 31.25 to 160 MHz, the RXO2016M is suitable for diverse applications across data centres, networking, instrumentation, and more.

### **Features**

- Frequency (Fn): 31.25 to 160 MHz
- Output: LVPECL, LVDS or HCSL
- Wide frequency range
- Operating temperature: -40 to 105°C
- Low phase noise and RMS jitter

### **Applications**

- Data centre, Telecom, Networking, Server, Storage, Instrumentation
- GB Ethernet, SONET, SATA, SAS, Fibre Channel, PCI-Express

#### 2.0 x 1.6 x 0.75 mm



# **Standard Specifications**

Parameter		Min.	Тур.	Max.	Unit	Test Condition / Description
Nominal frequency (Fn)		13.5		160	MHz	LVPECL, LVDS or HCSL output
Temperature range		-40		85 ~ 105	°C	
Frequency stability				±25 ~ ±100	ppm	Including frequency calibration, operating temperature range, supply and load variations, and 1 year ageing at 25°C
Supply voltage (VDD)	LVPECL LVDS, HCSL		2.5/3.3 1.8/2.5/3.3		V	With a tolerance of ±5%
Supply current	LVPECL LVDS HCSL			60 25 25	mA	
RMS phase jitter				0.1 ~ 1	ps	Integrated from 12kHz to 20MHz

### **Model Outline and Recommended Pad Layout**

