

## **RXO2016C**

The RXO2016C is a Crystal Oscillator (XO) in a compact 2.0 x 1.6 mm footprint, designed with a CMOS output for reliable clock generation. Its small form factor makes it an ideal choice for space-constrained Surface-Mount Device (SMD) applications. It delivers ≤1 ps RMS phase jitter (measured from a 12 kHz to 20 MHz offset). For applications requiring even lower jitter, an option with typical jitter as low as 50 fs is available upon request.

This device supports various industry-standard frequencies from 1.5 to 54 MHz. It provides various frequency stability options across a wide operating temperature range, considering factors such as initial frequency calibration, supply and load variations, and one-year ageing effects. The RXO2016C is well-suited for diverse applications in consumer electronics, computing, networking, data centres, industries, and more.

#### **Features**

- Frequency (Fn): 1.5 to 54 MHz
- Output: CMOS
- Wide frequency range
- Operating temperature: -40 to 125°C
- Low phase noise and RMS jitter

## **Applications**

- Consumer electronics
- Computing, Networking
- Processing, Data storage
- Data centre
- Medical, Industrial

#### 2.0 x 1.6 x 0.85 mm



# **Standard Specifications**

Parameter		Min.	Тур.	Max.	Unit	Test Condition / Description
Nominal frequency (Fn)		1.5		54	MHz	
Temperature range		-40		85 ~ 125	°C	
Frequency stability				±25 ~ ±50	ppm	Including frequency calibration, operating temperature range, supply and load variations, and 1 year ageing at 25°C
Supply voltage (VDD)			1.8/2.5/3.3		V	With a tolerance of ±5%
Supply current	≤20 MHz ≤54 MHz			6 9	mA	
RMS phase jitter				1	ps	Integrated from 12kHz to 20MHz

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

