

RSX-8

The RSX-8 is a compact, low-profile SMD crystal that delivers reliable performance across a wide frequency range of 8 to 150 MHz with a precision frequency tolerance of ± 15 ppm. It is well-suited to various applications, including smart wireless devices, GNSS systems, and communication technologies.

Features

- Frequency (Fn): 8 to 150 MHz
- Calibration tolerance: ± 15 ppm
- Operating temperature: -40 to 125°C

Applications

- Automotive and GNSS
- Handset, PND, and PDA
- Communications
- Feature phone

3.2 x 2.5 x 0.6 mm



Standard Specifications

Parameter	Min.	Typ.	Max.	Unit	Test Condition / Description
Nominal frequency (Fn)		8 - 145		MHz	
Calibration tolerance			± 10 to ± 50	ppm	Frequency at 25°C \pm 2°C and specified load capacitance
Temperature range	-30		85	°C	Operating temperature
	-40		125		
Frequency stability over temperature (FvT)			± 10 to ± 50	ppm	Temperature dependent. Referenced to frequency reading at 25°C and the specified load capacitance
Long term stability			± 1	ppm	Frequency drift over 1 year at 25°C
Load capacitance (CL)		6 to 47		pF	Frequency is calibrated at room temperature
Shunt capacitance (CO)			3	pF	
Drive level			100	μ W	200 μ W max. available upon request
Equivalent series resistance (ESR)	Fundamental		500	Ω	8.0 to 9.999MHz
			150		10.0 to 11.999MHz
			80		12.0 to 15.999 MHz
			60		16.0 to 19.999 MHz
			50		20.0 to 24.999 MHz
			40		25.0 to 49.999 MHz
			30		50.0 to 64.0 MHz
	3 rd overtone		150	Ω	60.0 to 99.999 MHz
			100		100.0 to 124.999 MHz
			80		125.0 to 150.0 MHz
Insulation resistance (IR)	500			M Ω	100 V \pm 15 V at 25°C

Model Outline and Recommended Pad Layout

