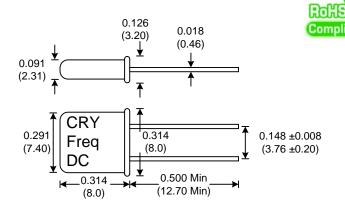




Quartz Crystal

CRMxx Model

UM-1 Leaded Crystal



Designed to provide traditional crystal design flexibility of the HC49 in a smaller UM-1 package. Custom lead forming available for SMD applications.

Resistance at series resonance		
Freq. (MHz)	Max ESR	
10.0 - 18.0 18.1 - 50.0 20.0 - 100.0 50.0 - 135.0	60 40 60 100	

Table 1

Dimensions inches (mm) All dimensions are maximum unless otherwise specified

Frequency Range: 10 MHz to 50 MHz (fund)

20 MHz to 100 MHz (3rd O/T)

50 MHz to 135 MHz (5th O/T)

Calibration Tolerance: ±50ppm (Standard p/n)

(Option) ±10ppm to ±100ppm

Frequency Stability: ±100ppm (Standard p/n)

(Option) ±15ppm to ±100ppm

Operating Temp. range: 0°C to 70°C (Standard p/n)

(Option) -20°C to 70°C (Option) -40°C to 85°C Storage Temp. range: -45°C to 90°C Shunt Capacitance: 7.0pF Max Drive level: 100uW Typical

ESR: See table 1

Aging: <3ppm 1st year Max

Insulation Resistance: 500 Megaohms Min at 100Vdc

Build Your Own P/N

CRM X X X X - Freq

Frequency Tolerance at 25°C 1 ±10 ppm 2 ±15 ppm 3 ±20 ppm 4 ±25 ppm 5 ±30 ppm 6 ±50 ppm 7 ±100 ppm

,	Frequency Stability over Temp Range					
В	±15 ppm	(0 to 70°C)	J	±30 ppm	(-20 to 70°C)	
С	±20 ppm	(0 to 70°C)	Κ	±50 ppm	(-20 to 70°C)	
D	±25 ppm	(0 to 70°C)	L	±100 ppm	(-20 to 70°C)	
Ε	±30 ppm	(0 to 70°C)	M	±20 ppm	(-40 to 85°C)	
F	±50 ppm	(0 to 70°C)	N	±25 ppm	(-40 to 85°C)	
G	±100 ppm	(0 to 70°C)	Ο	±30 ppm	(-40 to 85°C)	
Н	±15 ppm	(-20 to 70°C)	Р	±50 ppm	(-40 to 85°C)	
L	±20 ppm	(-20 to 70°C)	Q	±100 ppm	(-40 to 85°C)	

_	Load Capacitance			
1	Series			
2	14 pF			
3	16 pF			
4	18 pF			
5	20 pF			
6	22 pF			
7	25 pF			
8	32 pF			

Example:

CRM4F51-20.000 = ±25ppm at 25°C, ±50ppm 0 to 70°C, 20pF Load Cap, Fundamental, 20.000 MHz

Mode

- Fundamental 10 50 MHz
- 3rd Overtone 20 100 MHz
- 5th Overtone 50 135 MHz

Specifications subject to change without notice.

TD-021014 Rev. E



