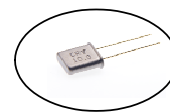


CRMxx Model UM-1 Leaded Crystal

Quartz Crystal

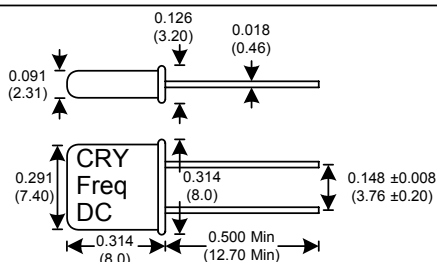
Frequency Range:	10MHz to 50MHz (fund) 20MHz to 100MHz (3rd O/T) 50MHz to 200MHz (5th O/T)
Frequency Tolerance:	±10ppm to ±100ppm
Frequency Stability:	±10ppm to ±100ppm
Temperature Range:	0°C to 70°C
(Option)	-20°C to 70°C
(Option)	-40°C to 85°C
Storage:	-55°C to 120°C
Shunt Capacitance:	7.0pF Max
Drive Level:	100 uW Typical
ESR:	see table 1



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

****Custom Designs Available**

Aging: <3ppm 1st/yr Max



Resistance at series resonance	
Freq. (MHz)	Max ESR
10.0 - 18.0	60
18.1 - 50.0	40
20.0 - 100.0	60
50.0 - 200.0	100

Table 1

Dimensions inches (mm)

All dimensions are Max unless otherwise specified.

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

A ±10 ppm (0 to 70°C)	J ±30ppm (-20 to 70°C)
B ±15 ppm (0 to 70°C)	K ±50 ppm (-20 to 70°C)
C ±20 ppm (0 to 70°C)	L ±100 ppm (-20 to 70°C)
D ±25 ppm (0 to 70°C)	M ±20 ppm (-40 to 85°C)
E ±30 ppm (0 to 70°C)	N ±25 ppm (-40 to 85°C)
F ±50 ppm (0 to 70°C)	O ±30 ppm (-40 to 85°C)
G ±100 ppm (0 to 70°C)	P ±50 ppm (-40 to 85°C)
H ±15 ppm (-20 to 70°C)	Q ±100 ppm (-40 to 85°C)
I ±20 ppm (-20 to 70°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

Mode

- 1 Fundamental 10-50 MHz
- 3 3rd Overtone 20-100 MHz
- 5 5th Overtone 50-200 MHz

Example:

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

Specifications subject to change without notice.

TD-021014 Rev. B



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