

# Crystek Corporation

236-561-3311 FAX 236-561-1025

## UM-1 Leaded Crystal

**Build a custom part number**

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

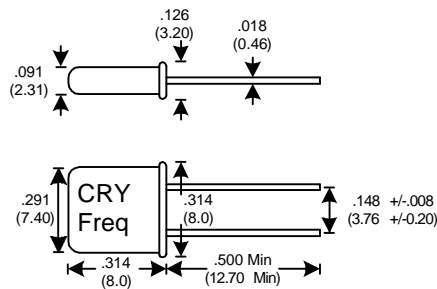
Frequency Stability over Temp Range					
A	±10 ppm	(0 to 70°C)	J	±30ppm	(-20 to 70°C)
B	±15 ppm	(0 to 70°C)	K	±50 ppm	(-20 to 70°C)
C	±20 ppm	(0 to 70°C)	L	±100 ppm	(-20 to 70°C)
D	±25 ppm	(0 to 70°C)	M	±20 ppm	(-40 to 85°C)
E	±30 ppm	(0 to 70°C)	N	±25 ppm	(-40 to 85°C)
F	±50 ppm	(0 to 70°C)	O	±30 ppm	(-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

**Example:**

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

Mode	
1	Fundamental 10-30 MHz
3	3rd Overtone 20-80 MHz
5	5th Overtone 50-135 MHz



Date Code is printed on the opposite side

Dimensions inches (mm)  
All dimensions are Max unless otherwise specified.

Resistance at series resonance		
Freq. (MHz)		Max ESR
10.0 - 18.0		60
18.1 - 30.0		40
20.0 - 80.0	3rd	60
50.0 - 135	5th	100

Table 1

### Standard specifications

**Frequency Range:** 10.0 to 135.0 MHz  
**Frequency Tolerance:** ±50ppm at 25°C  
**Frequency Stability:** ±100ppm 0°C to 70°C  
**Storage Temperature:** -40°C to 85°C  
**Shunt Capacitance:** 7.0 pF Max  
**Drive Level:** 100uW Typical  
**Aging 1st yr.:** ±3ppm Max  
**ESR:** see table 1  
**Option:** SMD Lead Forming

Specifications subject to change without notice.

Spec.	k5
Rev.	D