# **G Series Crystal**



- > 5mm X 7mm X 4 Pads Ceramic Package
- > Wide Frequency Range
- > Tight Tolerance and Stability
- Tape and Reel Packaging



Pin Connections

Pin 2 Case Ground
Pin 3 Crystal
Pin 4 Case Ground

Pin 1 Crystal

#### **ELECTRICAL SPECIFICATIONS:**

Frequency Range	6.000MHZ to 100.000MHZ	
Frequency Tolerance / Stability	(See Part Number Guide for Options)	
Operating Temperature Range	(See Part Number Guide for Options)	
Storage Temperature	-40°C to +85°C	
Aging	±5ppm / first year Max	
Shunt Capacitance	7pF Max	
Load Capacitance	20pF Standard (See Part Number Guide for Options)	
Equivalent Series Resistance	See ESR Chart	
Mode of Operation	Fundamental, or 3 <sup>rd</sup> OT	
Drive Level	1μW Typical	
Insulation Resistance	500 Megaohms Min at 100VDC	
Shock	MIL-STD-883, Meth 2002, Cond B	
Solderability	MIL-STD-883, Meth 2003	
Solvent Resistance	MIL-STD-202, Meth 215	
Vibration	MIL-STD-883, Meth 2007, Cond A	
Gross Leak Test	MIL-STD-883, Meth 1014, Cond C	
Fine Leak Test	MIL-STD-883, Meth 1014, Cond A	

### **ESR CHART:**

Frequency Range	ESR (Ohms)	Mode / Cut
6.000MHZ to 6.999MHZ	120 Max	Fund / AT
7.000MHZ to 7.999MHZ	110 Max	Fund / AT
8.000MHZ to 8.999MHZ	100 Max	Fund / AT
9.000MHZ to 9.999MHZ	90 Max	Fund / AT
10.000MHZ to 10.999MHZ	80 Max	Fund / AT
11.000MHZ to 11.999MHZ	70 Max	Fund / AT
12.000MHZ to 15.999MHZ	60 Max	Fund / AT
16.000MHZ to 39.999MHZ	40 Max	Fund / AT
40.000MHZ to 83.999MHZ	70 Max	3 <sup>rd</sup> OT / AT
84.000MHZ to 100.000MHZ	60 Max	3 <sup>rd</sup> OT / AT

## **MARKING:**

Line 1: MXX.XXX

XX.XXX = Frequency in MHz

Line 2: SYMCCL

Land Pattern

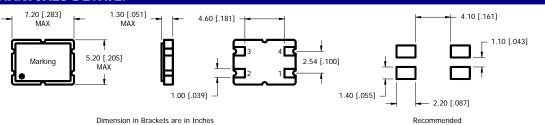
S = Internal Code

YM = Date Code (Year/Month)

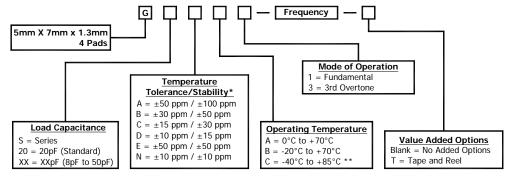
 $CC = Crystal \ Parameters \ Code$ 

L = Denotes RoHS Compliant

### **MECHANICALS DETAIL:**



### **PART NUMBER GUIDE:**



- \* Please consult with MMD sales department for any other parameters or options.
- \*\* Not all Frequency Tolerance/Stability options available at this temperature range.

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