

V Series Crystal



- 5.0mm x 3.2mm x 1.2mm 2 Pads Ceramic Package
- 12.000MHZ to 50.000MHZ
- Rugged AT-cut Crystal Construction
- Tape and Reel Packaging Available



ELECTRICAL SPECIFICATIONS:

Frequency Range	12.000 MHz to 50.000 MHz
Frequency Tolerance / Stability	(See Part Number Guide for Options)
Operable Temperature	(See Part Number Guide for Options)
Storage Temperature	-40°C to +85°C
Aging	±5 ppm per year
Shunt Capacitance	5 pF
Load Capacitance	(See Part Number Guide for Options)
Oscillation Mode	Fundamental
Drive Level	10µW typ / 300 max
Insulation Resistance	500 M ohms / 100 VDC
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:

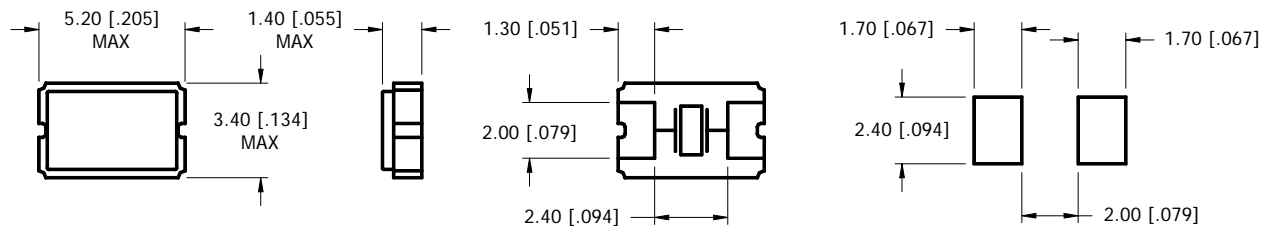
Frequency Range	ESR (Ohms)	Mode / Cut
12.000MHZ to 30.000MHZ	60 Max	Fund / AT
30.001MHZ to 40.000MHZ	50 Max	Fund / AT
40.001MHZ to 50.000MHZ	40 Max	Fund / AT

MARKING:

Line 1: MXX.XXX
XX.XXX = Frequency in MHz

Line 2: SYMCCL
S = Internal Code
YM = Date Code (Year/Month)
CC = Crystal Parameters Code
L = Denotes RoHS Compliant

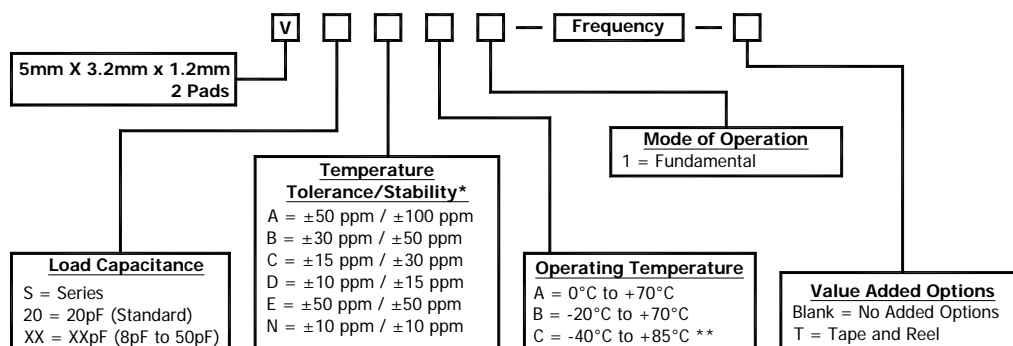
MECHANICALS DETAIL:



DIMENSION IN BRACKETS ARE IN INCHES

RECOMMENDED LAND PATTERN

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.

MMD Components, 30400 Esperanza, Rancho Santa Margarita, CA, 92688
Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
Sales@mmdcomp.com