T Series Crystal Spec

- **3.2mm X 2.5mm SMD**
- **Wide Frequency Range**
- **RoHS Compliant**
- **Tight Tolerance and Stability**

ELECTRICAL SPECIFICATIONS:

Frequency Range	13.000MHz to 55.000MHz
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	5pF Max
Load Capacitance	(See Part Number Guide for Options)
Equivalent Series Resistance (ESR)	See ESR Chart
Drive Level	10µW Typ / 100µW Max
Insulation Resistance	500 Megaohms Min at 100VDC ±15VDC

ESR CHART:

Frequency Range	ESR (Ohms)	Mode / Cut
13.000MHz to 20.000MHz	100 Max	Fund / AT
20.000MHz to 30.000MHz	80 Max	Fund / AT
30.000MHz to 55.000MHz	60 Max	Fund / AT

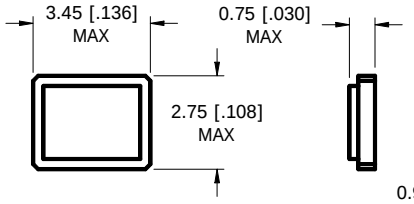
MARKING:

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

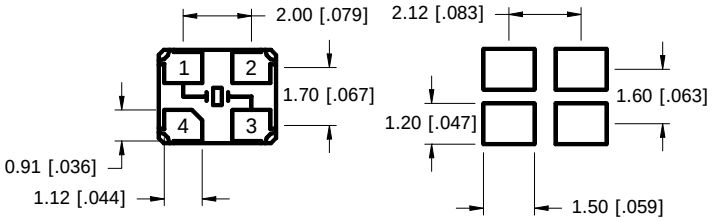
Line 2: SYMCCL
S = Internal Code
YM = Date Code (Year/Month)
CC = Crystal Parameters Code
L = Denotes RoHS Compliant

MECHANICAL DETAILS:

PIN	CONNECTION
1	CRYSTAL
2	NC
3	CRYSTAL
4	NC

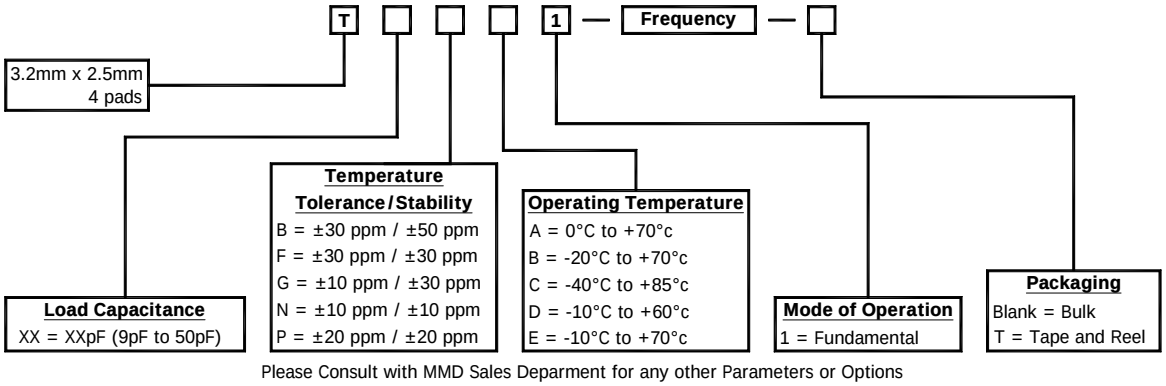


DIMENSIONS IN BRACKETS ARE IN INCHES



RECOMMENDED
LAND PATTERN

PART NUMBER GUIDE:



Please Consult with MMD Sales Deparment for any other Parameters or Options

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