

S Series Crystal



- **4.0mm X 2.5mm SMD Package**
- **Wide Frequency Range**
- **RoHS Compliant**
- **Tight Tolerance and Stability**



ELECTRICAL SPECIFICATIONS:

Frequency Range	12.000MHz to 50.000MHz
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:

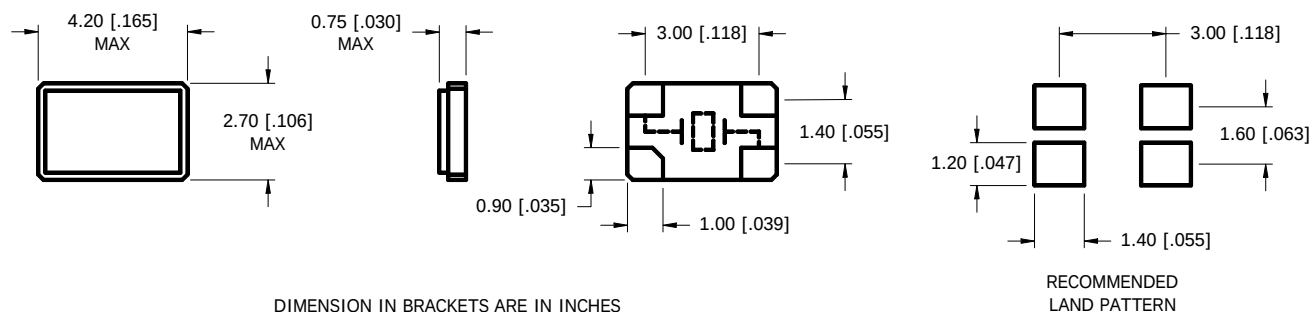
Frequency Range	ESR (Ohms)	Mode / Cut
12.000MHz to 16.000MHz	80 Max	Fund / AT
16.000MHz to 30.000MHz	60 Max	Fund / AT
30.000MHz to 50.000MHz	40 Max	Fund / AT

MARKING:

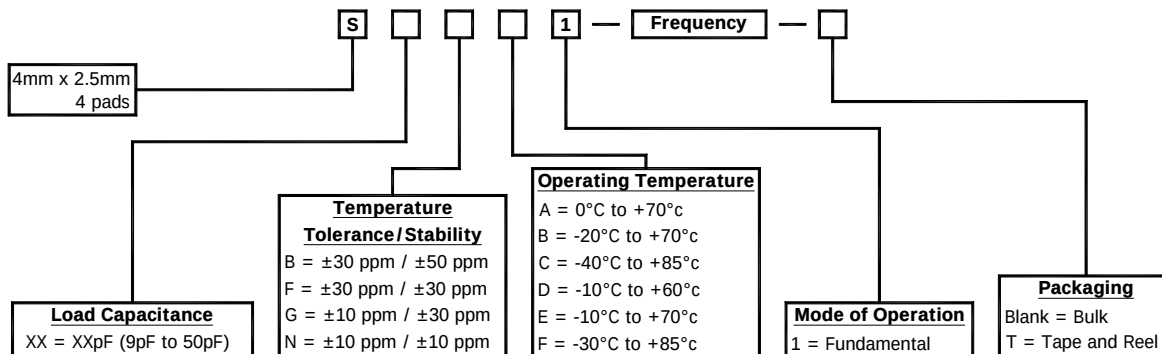
Line 1: MXX.XXX
XX.XXX = Frequency in MHz

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

MECHANICAL DETAILS:



PART NUMBER GUIDE:



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

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