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

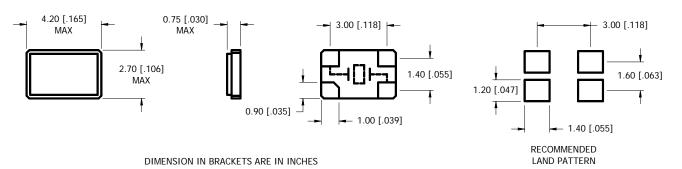
S = Internal Code

YM = Date Code (Year/Month)

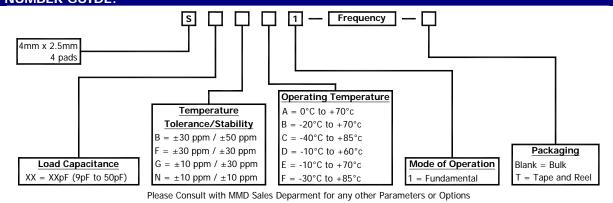
CC = Crystal Parameters Code

L = Denotes RoHS Compliant

MECHANICAL DETAILS:



PART NUMBER GUIDE:



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