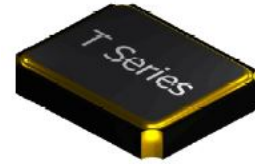


T Series



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



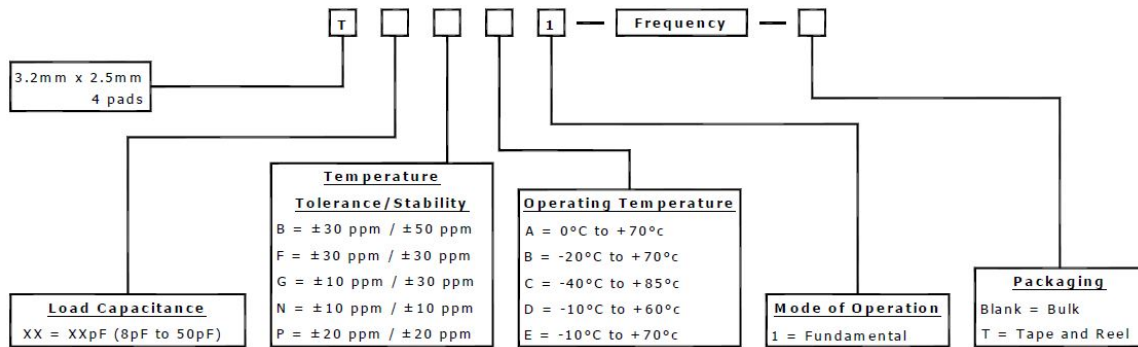
Electrical Specifications:

Frequency Range	12.000MHz to 54.000MHz
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 Maximum
Shunt Capacitance	5pF Maximum
Load Capacitance	(See Part Number Guide for Options)
Equivalent Series Resistance (ESR)	See ESR Chart
Drive Level	10μW Typical / 100μW Maximum
Insulation Resistance	500 Mega ohms Minimum at 100Vdc

ESR Chart

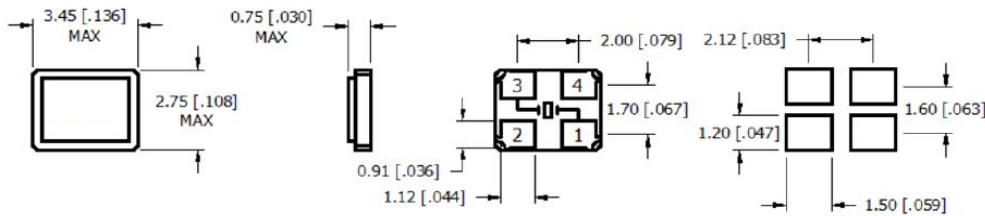
Frequency Range	ESR (Ohms)	Mode / Cut
12.000MHz to 19.999MHz	100 Max	Fund / AT
20.000MHz to 29.999MHz	80 Max	Fund / AT
30.000MHz to 54.000MHz	50 Max	Fund / AT

Part Number Guide



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

Mechanical Details

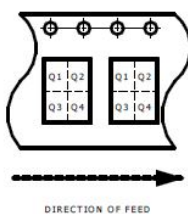
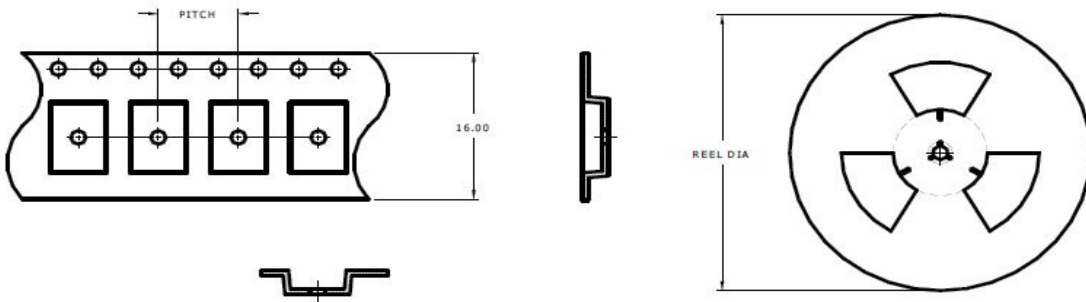


Pin Connections	
Pin 1	Crystal
Pin 2	Ground
Pin 3	Crystal
Pin 4	Ground

Notes:

1. Dimension in brackets are in inches.
2. Terminations: Au Plating 0.3 to 1.0um over A 1.27 to 8.89um Ni Plating

Tape & Reel Dimensions



PITCH	4.00 [0.157]
TAPE WIDTH	8.00 [0.315]
REEL DIA	180 [7.0]
COUNT	1000
PIN 1 ORIENT	Q1

- Notes: UNLESS OTHERWISE SPECIFIED
1. Applicable Standards / Specifications ANSI Y14.5M, Dimensions and Tolerances EIA-481-B, 8mm through 200mm Embossed Carrier Tapping and 8mm and 12mm Punched Carrier Tapping of Surface Mount Components for Automatic Handling.
 2. Dimensions are in millimetres [inch].
 3. Tolerances are ± 0.1 [0.004] mm unless otherwise specified.
 4. Do not scale drawing.