

K Series Crystal



- Plastic SMD Package
- Wide Frequency Range
- RoHS Compliant Available
- Tape and Reel Packaging



ELECTRICAL SPECIFICATIONS:

| | |
|--------------------------------|--|
| Frequency Range | 3.500MHz to 70.000MHz |
| Frequency Tolerance/ Stability | ±50ppm / ±100ppm Standard (See Part Number Guide for Options) |
| Operating Temperature Range | -10°C to +60°C |
| Storage Temperature | -55°C to +125°C |
| Aging | ±5ppm per year max |
| Shunt Capacitance | 7pF Max |
| Load Capacitance | 16pF Standard (See Part Number Guide for Options) |
| Equivalent Series Resistance | See ESR Chart |
| Mode of Operation | Fundamental or 3 rd OT |
| Drive Level | 50µW to 100µW |
| Insulation Resistance | 500 M ohms Min at 100VDC ±15VDC |
| Hermeticity of Seal | 1 x 10 ⁻² mPa (m ³ /s) Max |
| Shock Resistance | ±5ppm max (drop test onto a hard wooden board from 75cm) |

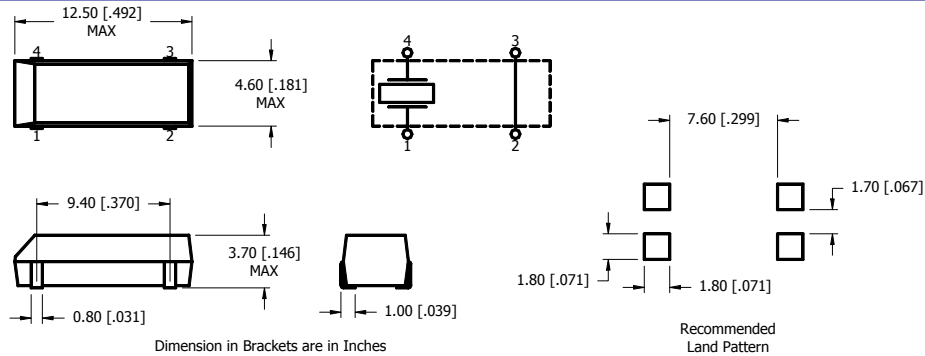
ESR CHART:

| Frequency Range | ESR (Ohms) | Mode / Cut |
|------------------------|------------|-----------------------|
| 3.500MHz to 3.999MHz | 200 Max | Fund / AT |
| 4.000MHz to 5.999MHz | 150 Max | Fund / AT |
| 6.000MHz to 9.999MHz | 100 Max | Fund / AT |
| 10.000MHz to 30.000MHz | 50 Max | Fund / AT |
| 30.000MHz to 35.999MHz | 100 Max | 3 rd OT/AT |
| 36.000MHz to 70.000MHz | 80 max | 3 rd OT/AT |

MARKING:

Line 1: MXX.XXX
 XX.XXX = Frequency in MHz
 Line 2: SYMCL
 S = Internal Code
 YM = Date Code (Year/Month)
 CC = Crystal Parameters Code
 L = Denotes RoHS Compliant

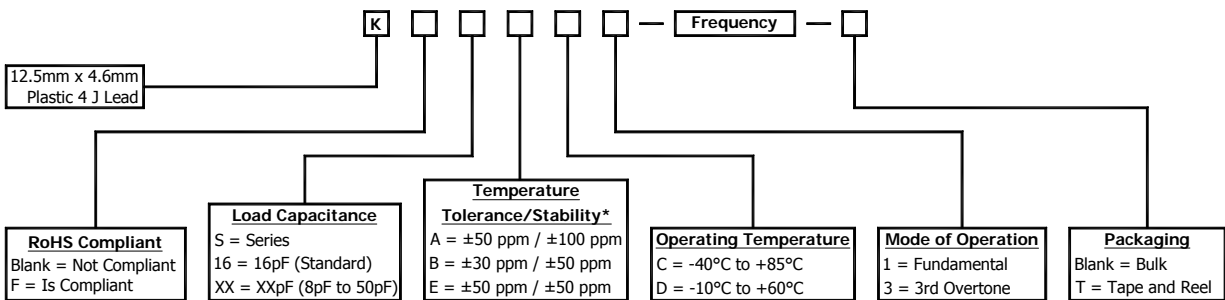
MECHANICAL DETAILS:



MOISTURE SENSITIVITY LEVEL:

| Level | Floor Life | | Standard | | Accelerated Equivalent | |
|-------|------------|----------------|-----------------|---------------|------------------------|---------------|
| | Time | Conditions | Time | Conditions | Time | Conditions |
| 3 | 168 Hours | ≤30°C/60% R.H. | 192 +5/-0 Hours | 30°C/60% R.H. | 40 +1/-0 Hours | 60°C/60% R.H. |

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