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 3rd 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)

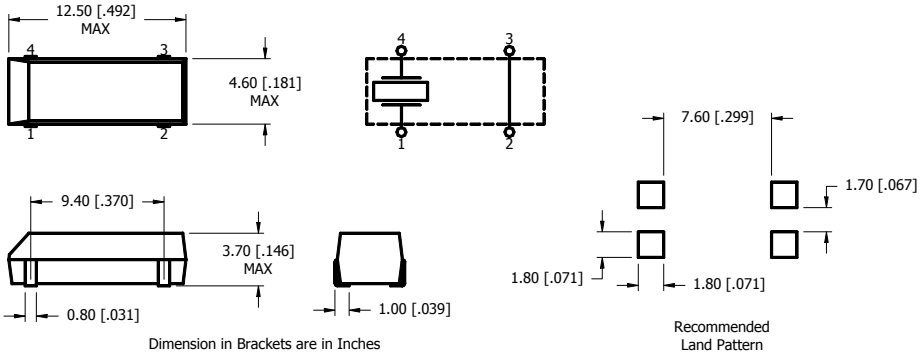
ESR CHART:

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	3rd OT/AT
36.000MHz to 70.000MHz	80 max	3rd OT/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:

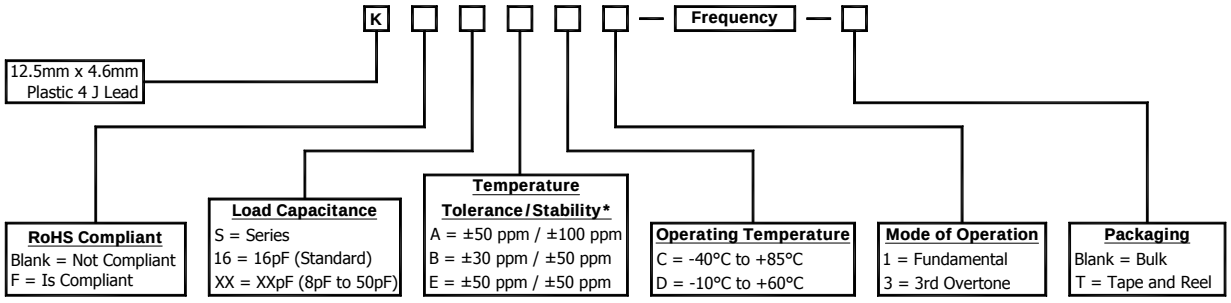


Dimension in Brackets are in Inches

MOISTURE SENSITIVITY LEVEL:

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

PART NUMBER GUIDE:



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