MEC Crystals

Glass Sealed Ceramic SMD Package (8 x 4.5 x 1.5mm)

(2 Pad)

Features:

- Ultra small SMD type crystal units
- High reliable environmental performance (ceramic package, glass sealed)
- Reasonable cost
- Good delivery performance
- RoHs Compliant (Pb Free)



Electrical Specifications:

Frequency Range	8.000MHz ~ 80.000MHz	
Frequency Tolerance	±10ppm ~ ±50ppm or specify	
Frequency Stability over Operating Temperature	-10°C ~ +60°C ±30ppm, -20°C ~ +70°C ±50ppm or specify	
Operating Temperature Range	-40°C to +85°C	
Storage Temperature Range	-55°C to +125°C	
Shunt Capacitance (C ₀)	5.0pF max	
Drive Level (Typical)	10μW	
Load Capacitance (C _L)	Series, 16pF, 20pF, 30pF, 32pF or specify	
Equivalent Series Resistance	see chart	
Aging @25°C 1st year (max)	±3 ppm, ±5 ppm / year	
Shock Resistance	Drop test of 3 times on 2mm stainless plate from 75 cm height	

Equivalent Series Resistance (ESR) and Mode of Operation (Mode):

Frequency Range	E.S.R. (ohm)	Mode
8.000MHz ~ 10.000MHz	70 max	Fundamental / AT
10.000MHz ~ 40.000MHz	40 max	Fundamental / AT
30.000MHz ~ 45.000MHz	60 max	3rd Overtone / AT
45.000MHz ~ 80.000MHz	50 max	3rd Overtone / AT

Part Numbering System:

① Series 2K

② Frequency Frequency ex. 16.000

3 Mode of Vibration Cut-Mode Code AT Fund F 3 AT 3rd OT

4 Load Capacitance CL Load

Capacitance S Series 16 16pF 20 20pF 30 30pF 32 32pF

(5) Operating Temperature

Code Ranges -10°C ~ +60°C Α -20°C ~ +70°C -40°C ~ +85°C **6** Frequency Tolerance

Code Tolerance 10 ± 10 ppm 15 ± 15 ppm 20 ± 20 ppm 25 ± 25 ppm 30 ± 30 ppm 50 ± 50 ppm or specify

7 Frequency Stability

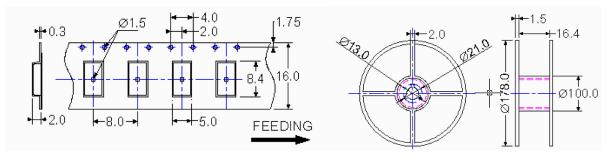
Code	Stability
10	± 10 ppm
15	± 15 ppm
20	± 20 ppm
25	± 25 ppm
30	± 30 ppm
50	± 50 ppm
	or specify

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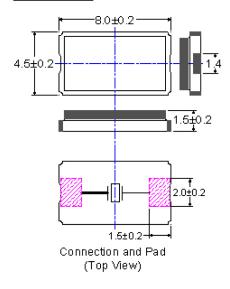
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Packing:



Dimensions:



Reference Land Pattern (Typical):

