

Quartz Crystal Unit

2G Series

Seam Sealed Ceramic SMD Package (6 x 3.5 mm)

(2 Pads)

MEC Crystals

Features:

- Leadless type
- Automatic mounting
- Rugged AT-cut crystal construction
- Emboss tapping specification
- Suitable for solder reflow
- Available on tape & reel, 1000 pcs per reel
- **RoHs Compliant (Pb Free)**

Applications:

- Ideally suited designed for disc drives, NB, PCs and hand-held electronic products.



Electrical Specifications:

Frequency Range	8.000MHz ~ 80.000MHz
Frequency Tolerance (at 25°C)	±30ppm, ±50ppm or specify
Frequency Stability over Operating Temperature Characteristics	±30ppm, ±50ppm or specify
Operating Temperature Range	-10°C to +60°C, -20°C to +70°C -40°C to +85°C
Storage Temperature Range	-55°C to +125°C
Shunt Capacitance (C ₀)	5.0pF max
Drive Level (Typical)	10µW ~ 100µW
Load Capacitance (C _L)	Series, 16pF, 20pF, 30pF, 32pF or specify
Equivalent Series Resistance ESR (ohms)	see chart
Aging at 25°C first year (max)	±3ppm / 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. (ohms)	Mode
8.000MHz ~ 9.999MHz	70 max	Fundamental / AT
10.000MHz ~ 29.999MHz	40 max	Fundamental / AT
30.000MHz ~ 44.999MHz	60 max	3rd Overtone / AT
45.000MHz ~ 80.000MHz	50 max	3rd Overtone / AT

Part Numbering System:

2G **16.000** **F** **16** **X** **10** **30**
① ② ③ ④ ⑤ ⑥ ⑦

① Series

2G

② Frequency

Frequency
ex. 16.000

③ Mode of Vibration

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

④ Load Capacitance CL

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

⑤ Operating Temperature

Code	Ranges
A	-10°C ~ +60°C
B	-20°C ~ +70°C
X	-40°C ~ +85°C

⑥ Frequency Tolerance

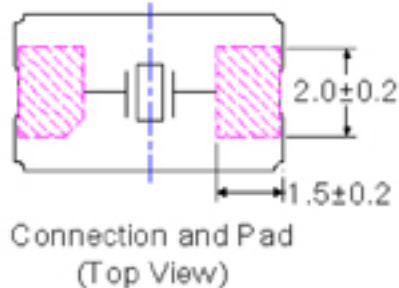
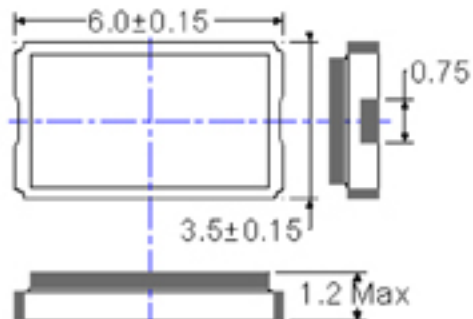
Code	Tolerance
10	± 10 ppm
15	± 15 ppm
20	± 20 ppm
25	± 25 ppm
30	± 30 ppm
50	± 50 ppm
or specify	

⑦ Frequency Stability

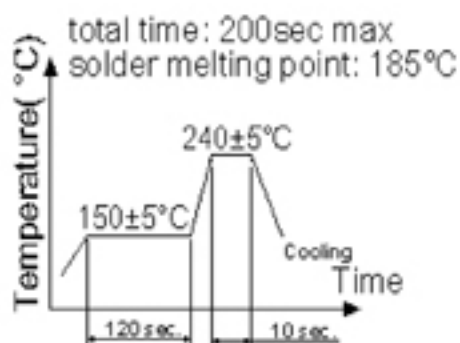
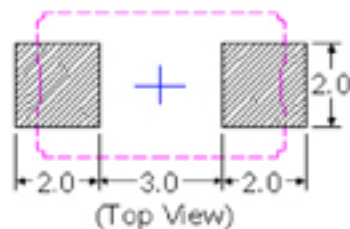
Code	Stability
10	± 10 ppm
15	± 15 ppm
20	± 20 ppm
25	± 25 ppm
30	± 30 ppm
50	± 50 ppm
or specify	

Remark: Specifications are subject to change without prior notice. Please confirm with our sales engineer.

Dimensions:



Reference Land Pattern:



Packing:

