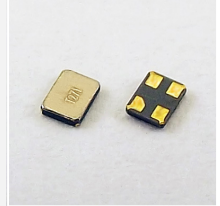


## ULTRA MINIATURE CERAMIC SMD CRYSTAL (1.6 x 1.2 x 0.4mm)

### FEATURES:

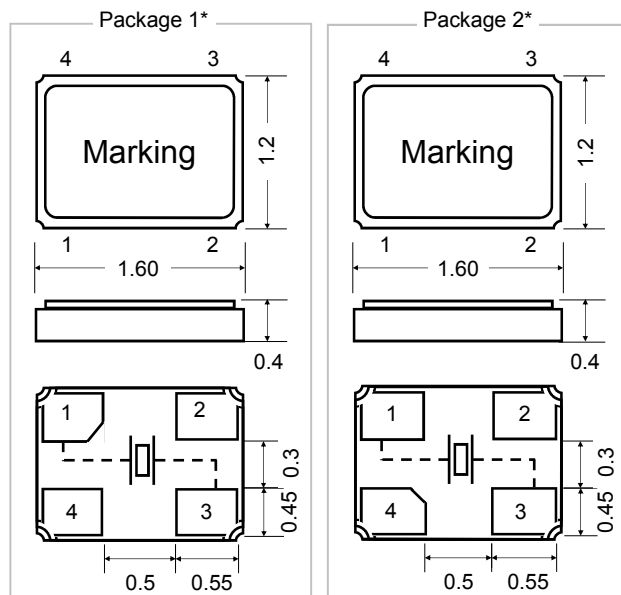
- TIGHT TOLERANCE AND STABILITY AVAILABLE
- AUTOMOTIVE GRADE AEC-Q200 QUALIFIED VERSION AVAILABLE
- SUITABLE FOR ROHS REFLOW



### SPECIFICATION

<b>FREQUENCY RANGE</b>	24.000MHz ~ 60.000MHz
<b>STANDARD FREQUENCIES</b>	26.000000MHz 27.000000MHz 27.120000MHz 32.000000MHz 36.000000MHz 40.000000MHz 50.000000MHz 60.000000MHz
<b>FREQUENCY TOLERANCE @ 25°C</b>	±10ppm ~ 50ppm (See P/N guide for other options)
<b>FREQUENCY STABILITY</b>	±10ppm ~ 50ppm (See P/N guide for other options)
<b>OPERATING TEMPERATURE RANGE</b>	STD: 0°C ~ 70°C, Option: -40°C ~ 85°C (See P/N guide for other options)
<b>STORAGE TEMPERATURE RANGE</b>	-55°C ~ 125°C
<b>LOAD CAPACITANCE</b>	STD: 8pF (See P/N guide for other options)
<b>SHUNT CAPACITANCE</b>	3.5pF max.
<b>INSULATION RESISTANCE</b>	500MΩ min. @ 100V <sub>DC</sub> ± 15V <sub>DC</sub>
<b>DRIVE LEVEL</b>	200μW max.
<b>AGING @ 25°C ± 3°C</b>	±2.0ppm / 1 <sup>st</sup> year max.
<b>EQUIVALENT SERIES RESISTANCE</b>	24.000MHz - 40.000MHz: 150Ω max. 40.001MHz - 60.000MHz: 80Ω max.
<b>OPERATION MODE</b>	AT Cut, Fundamental

### PACKAGE DIMENSIONS

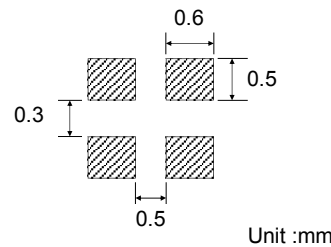


\* Package 1 and 2 are provided interchangeably based on material availability.  
\*\* Different chamfer location between package 1 and 2.

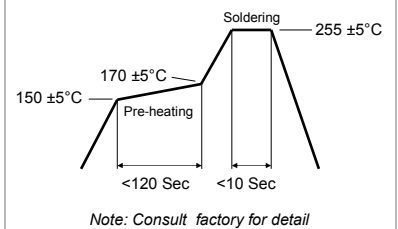
Pin Configuration	
1	Xtal
2	GND
3	Xtal
4	GND

Unit : mm

### SOLDER PATTERN



### REFLOW PROFILE



### PART NUMBERING GUIDE

**CS16 – F 50 50 HM 08 – 26.000M – TR**

<b>Product series</b> CS16 – F	<b>Stability</b> 50: ± 50ppm 30: ± 30ppm 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Stability	<b>Load Capacitance</b> 08: 8pF 20: 20pF 10: 10pF 22: 22pF 12: 12pF 24: 24pF 16: 16pF 28: 28pF 18: 18pF 32: 32pF S: Series	<b>Options</b> Q: AEC-Q200 Qualified TR: Tape and reel
<b>Mode</b> F: Fundamental	<b>Tolerance @ 25°C</b> 50: ± 50ppm 30: ± 30ppm (standard) 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Tolerance	<b>Operating Temperature</b> A: -55 F: -20 M: 70 S: 100 B: -50 G: -10 N: 75 T: 105 C: -40 H: 0 P: 80 U: 125 D: -35 J: 50 Q: 85 X: custom E: -30 K: 60 R: 90	<b>Frequency</b> M: MHz

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