

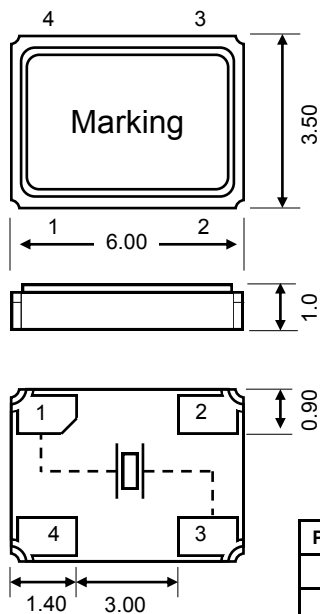
**CERAMIC SMD CRYSTAL (6.0 x 3.5 x 1.0mm)**
**FEATURES:**

- HIGH FREQUENCY RANGE
- LOW COST SMD PACKAGE
- LOW PROFILE / SUITABLE FOR REFLOW

RoHS  
Compliant

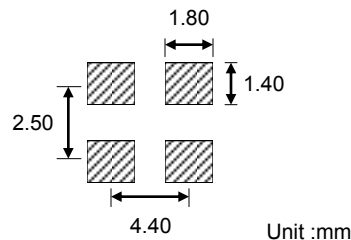
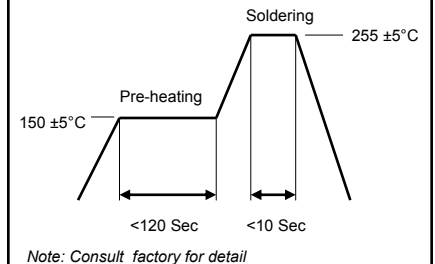


MODEL	CS63A
FREQUENCY RANGE	10.000MHz ~ 80.000MHz
FREQUENCY TOLERANCE	± 30ppm (see below for other options)
TEMPERATURE STABILITY	± 50ppm (see below for other options)
OPERATING TEMPERATURE	STD: 0°C to 70°C (see below for other options)
STORAGE TEMPERATURE	-55°C to 125°C
SHUNT CAPACITANCE	7.0pF max
LOAD CAPACITANCE	STD: 18pF. (see below for other options)
DRIVE LEVEL	100uW max.
AGING	± 5.0ppm / year @ 25°C ± 3°C
INSULATION RESISTANCE	500MΩ min. at 100VDC ± 15VDC
OPERATION MODE	Fundamental / Third overtone >40.000MHz
ESR	10.000MHz ~ 10.999MHz: 100Ω max. 11.000MHz ~ 11.999MHz: 80Ω max. 12.000MHz ~ 15.999MHz: 60Ω max. 16.000MHz ~ 39.999MHz: 40Ω max. 40.000MHz ~ 80.000MHz: 70Ω max. (third overtone)

**PACKAGE DIMENSIONS**


Unit : mm

Pin Configuration	
1	Xtal
2	Ground
3	Xtal
4	Ground

**SOLDER PATTERN**

**REFLOW PROFILE**

**PART NUMBERING GUIDE**

**CS63A - F - 00 - 00 - HM - 08 - 20.000M - TR**

<b>Mode</b> F: Fundamental T: Third overtone	<b>Stability</b> 00: ± 100ppm 50: ± 50ppm 30: ± 30ppm 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm	<b>Load Capacitance</b> 08: 8pF    20: 20pF 10: 10pF    22: 22pF 12: 12pF    24: 24pF 16: 16pF    28: 28pF 18: 18pF    32: 32pF	<b>Other Options</b> TR: Tape and reel
<b>Tolerance @ 25°C</b> 00: ± 100ppm 50: ± 50ppm(standard) 30: ± 30ppm 25: ± 25ppm 10: ± 10ppm	<b>Operating Temperature</b> A: -55    G: -10    P: 80 B: -50    H: 0    Q: 85 C: -40    J: 50    R: 90 D: -35    K: 60    S: 100 E: -30    M: 70    T: 105 F: -20    N: 75    U: 125 X: custom	<b>Frequency</b> M: MHz	

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