

CERAMIC SMD CRYSTAL (6.0 x 3.5 x 1.0mm)

FEATURES:

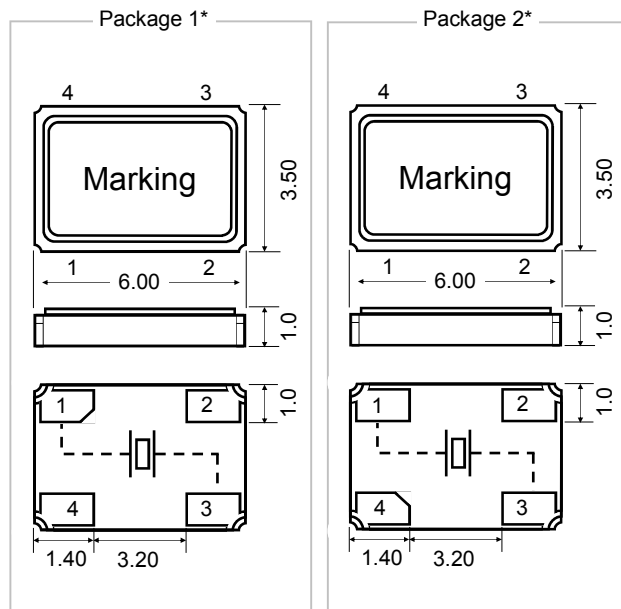
- HIGH FREQUENCY RANGE
- LOW COST SMD PACKAGE
- LOW PROFILE / SUITABLE FOR REFLOW



■ SPECIFICATION

FREQUENCY RANGE	7.000MHz ~ 200.000MHz
FREQUENCY TOLERANCE @ 25°C	±10ppm ~ ±50ppm (See P/N guide for other options)
FREQUENCY STABILITY	±10ppm ~ ±50ppm (See P/N guide for other options)
OPERATING TEMPERATURE RANGE	STD: 0°C ~ 70°C, Option: -40°C ~ 85°C (See P/N guide for other options)
STORAGE TEMPERATURE RANGE	-55°C ~ 125°C
LOAD CAPACITANCE	STD: 18pF (See P/N guide for other options)
SHUNT CAPACITANCE	5.0pF max.
INSULATION RESISTANCE	500MΩ min. @ 100V _{DC} ± 15V _{DC}
DRIVE LEVEL	500μW max.
AGING @ 25°C ± 3°C	±3.0ppm / 1 st year max.
EQUIVALENT SERIES RESISTANCE	Fundamental: 7.000MHz ~ 12.000MHz: 100Ω max. Fundamental: 12.001MHz ~ 14.000MHz: 60Ω max. Fundamental: 14.001MHz ~ 54.000MHz: 40Ω max. 3rd overtone: 40.000MHz ~ 200.000MHz: 80Ω max.
OPERATION MODE	AT cut, Fundamental or 3 rd overtone

■ PACKAGE DIMENSIONS

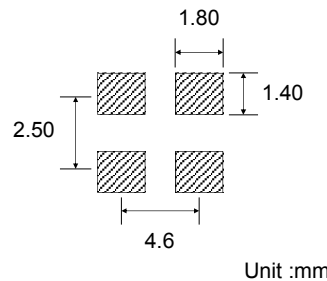


* Package 1 and 2 are provided interchangeably based on material availability.
 ** Different chamfer location between package 1 and 2.

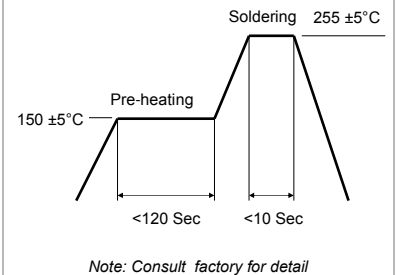
Unit : mm

Pin Configuration	
1	Xtal
2	GND
3	Xtal
4	GND

■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE

CS63A - F		00		00		HM		08 - 40.000M - TR	
Mode F: Fundamental T: 3 rd overtone		Stability 00: ± 100ppm 50: ± 50ppm 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Stability		Load Capacitance 08: 8pF 10: 10pF 12: 12pF 16: 16pF 18: 18pF 20: 20pF 22: 22pF 24: 24pF 28: 28pF 32: 32pF S: Series		Other Options TR: Tape and reel		Frequency M: MHz	
Tolerance @ 25°C 00: ± 100ppm 50: ± 50ppm 30: ± 30ppm 25: ± 25ppm 10: ± 10ppm XX: Two digit for Tolerance		Operating Temperature A: -55 B: -50 C: -40 D: -35 E: -30 F: -20 G: -10 H: 0 J: 50 K: 60 M: 70 N: 75 P: 80 Q: 85 R: 90 S: 100 T: 105 U: 125 X: custom							

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