

CERAMIC SMD CRYSTAL (6.0 x 3.5 x 1.0mm)

FEATURES:

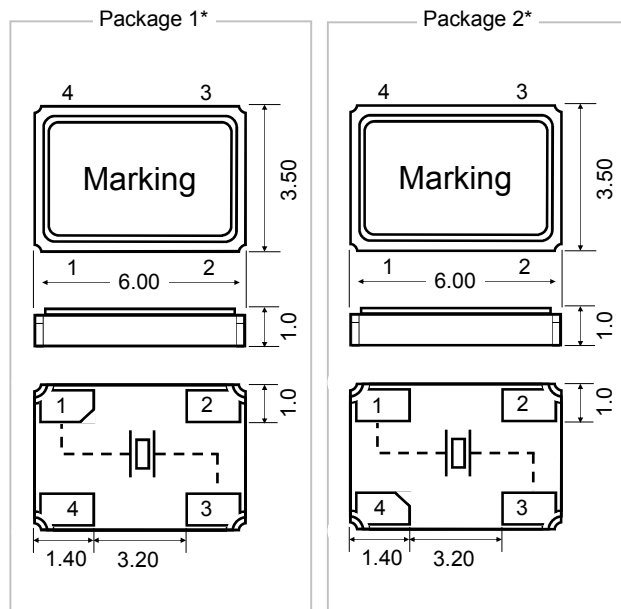
- HIGH FREQUENCY RANGE
- LOW COST SMD PACKAGE
- LOW PROFILE / SUITABLE FOR REFLOW



■ 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

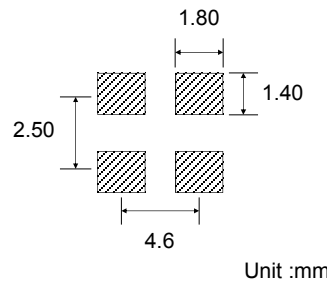


* Package 1 and 2 are provided interchangeably based on material availability.
 ** Different chamfer location between package 1 and 2.

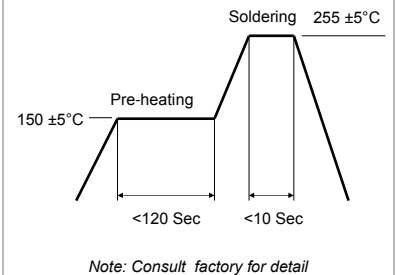
Unit : mm

| 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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