

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

FEATURES:

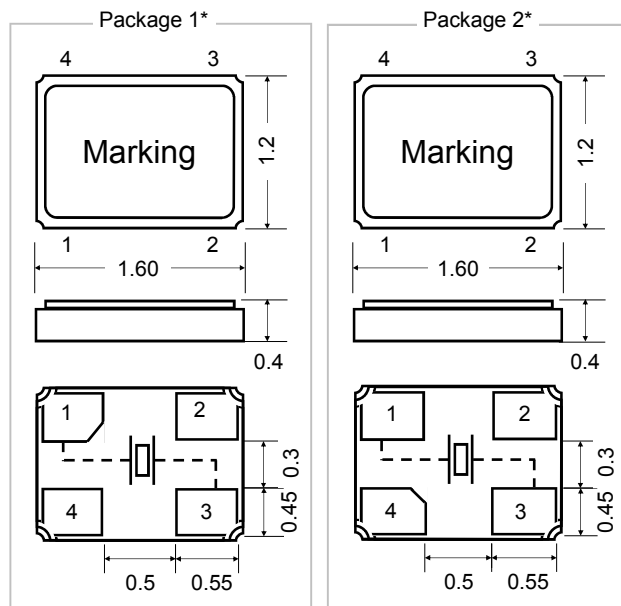
- TIGHT TOLERANCE AND STABILITY AVAILABLE
- AUTOMOTIVE GRADE AEC-Q200 QUALIFIED VERSION AVAILABLE
- SUITABLE FOR ROHS REFLOW



■ SPECIFICATION

FREQUENCY RANGE	24.000MHz ~ 60.000MHz
STANDARD FREQUENCIES	26.000000MHz 27.000000MHz 27.120000MHz 32.000000MHz 36.000000MHz 40.000000MHz 50.000000MHz 60.000000MHz
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: 8pF (See P/N guide for other options)
SHUNT CAPACITANCE	3.5pF max.
INSULATION RESISTANCE	500MΩ min. @ 100V _{DC} ± 15V _{DC}
DRIVE LEVEL	200μW max.
AGING @ 25°C ± 3°C	±2.0ppm / 1 st year max.
EQUIVALENT SERIES RESISTANCE	24.000MHz - 40.000MHz: 150Ω max. 40.001MHz - 60.000MHz: 80Ω max.
OPERATION MODE	AT Cut, Fundamental

■ PACKAGE DIMENSIONS

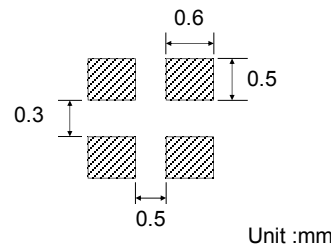


* Package 1 and 2 are provided interchangeably based on material availability.
** Different chamfer location between package 1 and 2.

Pin Configuration	
1	Xtal
2	GND
3	Xtal
4	GND

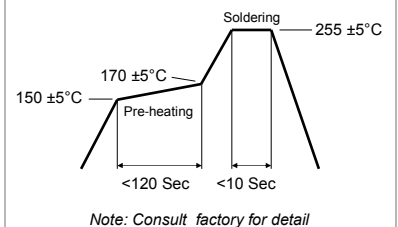
Unit : mm

■ SOLDER PATTERN



Unit :mm

■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE

CS16 – F 50 50 HM 08 – 26.000M – TR

Product series CS16 – F	Stability 50: ± 50ppm 30: ± 30ppm 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Stability	Load Capacitance 08: 8pF 20: 20pF 10: 10pF 22: 22pF 12: 12pF 24: 24pF 16: 16pF 28: 28pF 18: 18pF 32: 32pF S: Series	Options Q: AEC-Q200 Qualified TR: Tape and reel
Mode F: Fundamental	Tolerance @ 25°C 50: ± 50ppm 30: ± 30ppm (standard) 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Tolerance	Operating Temperature 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	Frequency M: MHz

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