

ULTRA MINIATURE CERAMIC SMD CRYSTAL (1.2 x 1.0 x 0.33mm)

FEATURES:

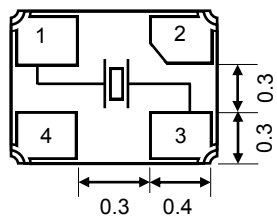
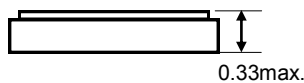
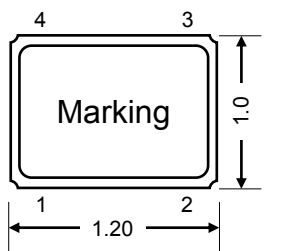
- THE WORLD'S SMALLEST QUARTZ CRYSTAL UNIT
- AEC-Q200 COMPLIANT SPEC AVAILABLE UPON REQUEST
- SUITABLE FOR ROHS REFLOW



■ SPECIFICATION

FREQUENCY RANGE	36.000MHz ~ 80.000MHz
FREQUENCY TOLERANCE @ 25°C	±7ppm ~ 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 ~ 125°C (See P/N guide for other options)
STORAGE TEMPERATURE RANGE	-55°C ~ 125°C
LOAD CAPACITANCE	5pF, 6pF, 7pF (See P/N guide, other option available)
SHUNT CAPACITANCE	7.0pF max.
INSULATION RESISTANCE	500MΩ min. @ 100V _{DC} ± 15V _{DC}
DRIVE LEVEL	100μW max.
AGING @ 25°C ± 3°C	±3.0ppm / 1 st year max.
EQUIVALENT SERIES RESISTANCE	36.000MHz - 40.000MHz: 150Ω max. 40.001MHz - 48.000MHz: 80Ω max. 48.001MHz - 80.000MHz: 60Ω max.
OPERATION MODE	AT Cut, Fundamental

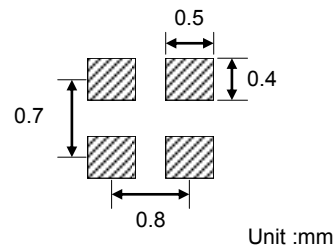
■ PACKAGE DIMENSIONS



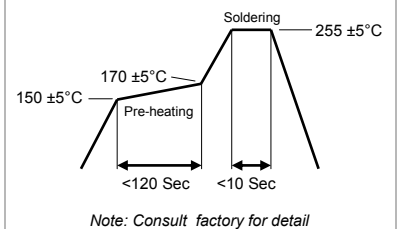
Unit : mm

Pin Configuration	
1	Xtal
2	GND
3	Xtal
4	GND

■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE

<u>CS12</u>	-	<u>F</u>	-	<u>50</u>	-	<u>50</u>	-	<u>HM</u>	-	<u>05</u>	-	<u>36.000M</u>	-	<u>TR</u>
		Mode F: Fundamental								Load Capacitance 05: 5.0pF 06: 6.0pF 07: 7.0pF *consult for other options			Other Options TR: Tape and reel 5000pcs/reel	
		Tolerance @ 25°C 50: ± 50ppm 30: ± 30ppm 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm 07: ± 7ppm XX: Two digit for Tolerance								Frequency M: MHz				
		Stability 50: ± 50ppm 30: ± 30ppm 20: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Stability							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					

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