

ULTRA MINIATURE CERAMIC SMD CRYSTAL (2.0 x 1.6 x 0.5mm)

FEATURES:

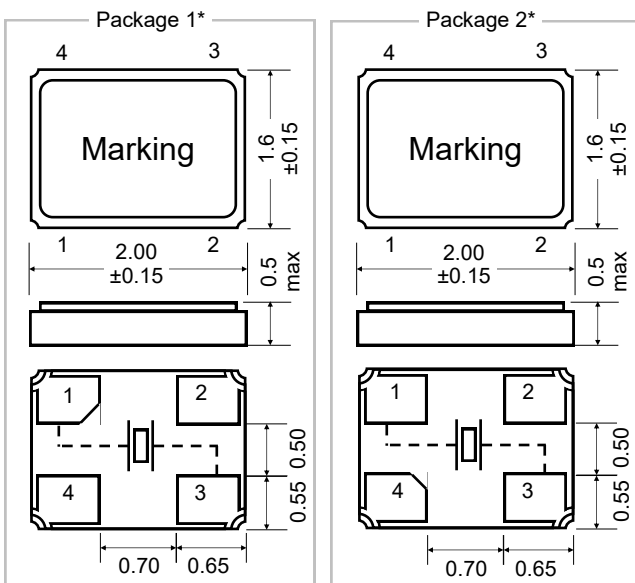
- TIGHT TOLERANCE AND STABILITY AVAILABLE
- AUTOMOTIVE GRADE AEC-Q200 QUALIFIED VERSION AVAILABLE
- SUITABLE FOR ROHS REFLOW



SPECIFICATION

FREQUENCY RANGE	16.000MHz ~ 80.000MHz		
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: 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	16.000MHz ~ 20.000MHz: 150Ω max. 20.001MHz ~ 25.000MHz: 80Ω max. 25.001MHz ~ 40.000MHz: 60Ω max. 40.001MHz ~ 80.000MHz: 50Ω max.		
OPERATION MODE	AT cut, Fundamental		

PACKAGE DIMENSIONS

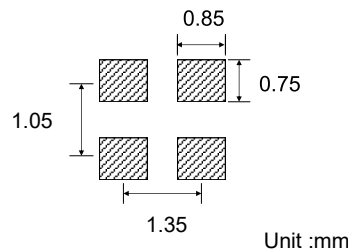


* Package 1 and 2 are provided interchangeably based on material availability.
 ** Different chamfer location between package 1 and 2.

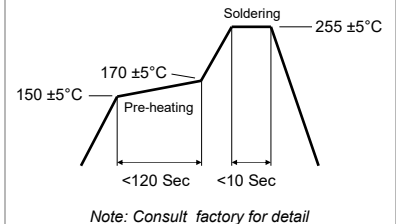
Unit : mm

Pin Configuration	
1	Xtal
2	GND
3	Xtal
4	GND

SOLDER PATTERN



REFLOW PROFILE



Note: Consult factory for detail

PART NUMBERING GUIDE

CS21 - F		50	50	HM	08	26.000M	TR
Product series							
Mode							
F: Fundamental							
Stability							
50: ± 50ppm							
30: ± 30ppm							
25: ± 25ppm							
20: ± 20ppm							
15: ± 15ppm							
10: ± 10ppm							
XX: Two digit for Stability							
Load Capacitance							
07: 7pF							
08: 8pF							
10: 10pF							
12: 12pF							
16: 16pF							
18: 18pF							
20: 20pF							
22: 22pF							
24: 24pF							
28: 28pF							
32: 32pF							
S: Series							
Options							
Q: AEC-Q200 Qualified							
TR: Tape and reel							
Frequency							
M: MHz							
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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