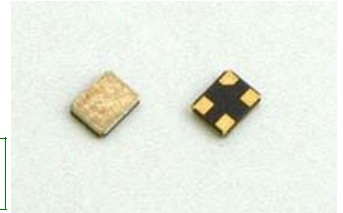


## CERAMIC SMD ULTRA MINIATURE CRYSTAL (2.0 x 1.6 x 0.46mm)

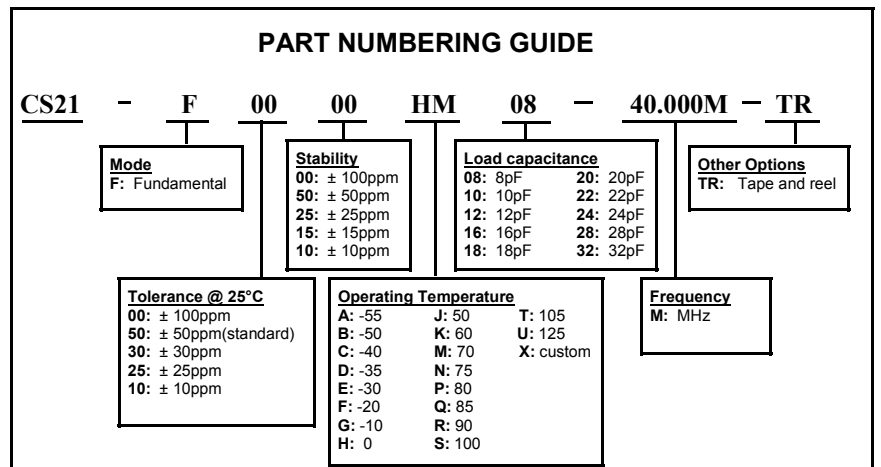
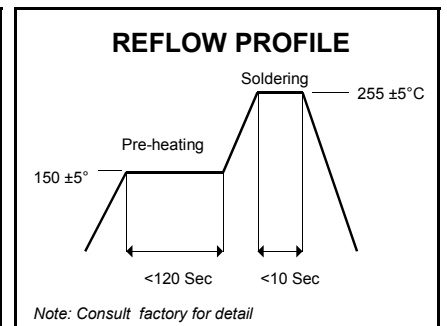
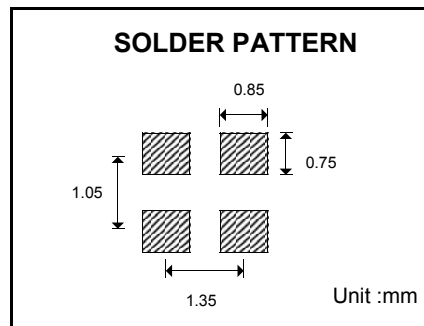
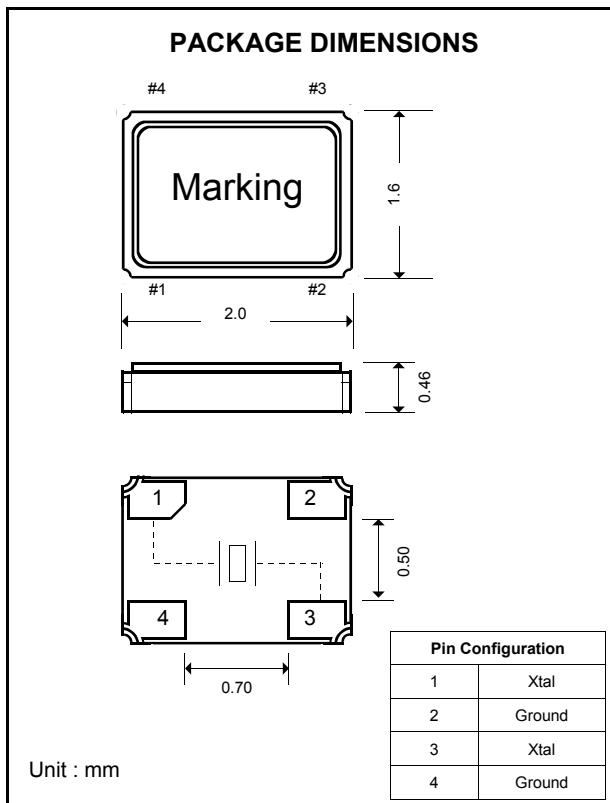
### FEATURES:

- SMALLEST CERAMIC SMD PACKAGE
- WIDE FREQUENCY RANGE
- LOW PROFILE / SUITABLE FOR REFLOW

RoHS  
Compliant



MODEL	CS21		
FREQUENCY RANGE	20.000MHz ~ 80.000MHz		
FREQUENCY TOLERANCE	± 50ppm (see below for other options)		
TEMPERATURE STABILITY	± 50ppm (see below for other options)		
OPERATING TEMPERATURE	STD: 0°C to 70°C (see below for other options)		
STORAGE TEMPERATURE	-40°C to 85°C		
SHUNT CAPACITANCE	5.0pF max		
LOAD CAPACITANCE	8pF typical. (see below for other options)		
DRIVE LEVEL	100uW max.		
AGING	± 5.0ppm / year @ 25°C ± 3°C		
INSULATION RESISTANCE	500MΩ min. at 100VDC ± 15VDC		
OPERATION MODE	Fundamental		
ESR	20.000MHz ~ 25.000MHz: 100Ω max. 25.001MHz ~ 40.000MHz: 90Ω max. 40.001MHz ~ 80.000MHz: 60Ω max.		
STANDARD FREQUENCIES	20.000000MHz 22.000000MHz 24.576000MHz 28.636363MHz 36.000000MHz	20.480000MHz 24.000000MHz 26.000000MHz 32.000000MHz 40.000000MHz	20.250000MHz 24.545450MHz 27.000000MHz 32.768000MHz 60.000000MHz



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