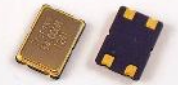


MINIATURE CERAMIC SMD CRYSTAL (7.0 x 5.0 x 1.1mm)

FEATURES:

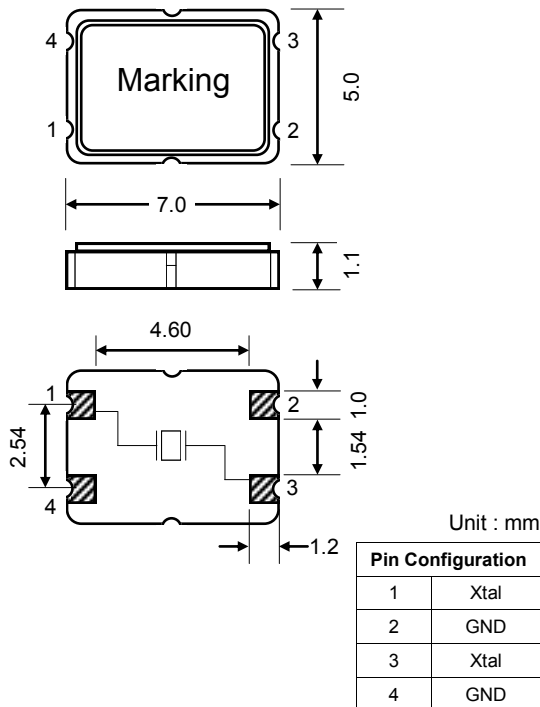
- HIGH FREQUENCY RANGE
- LOW COST / LOW PROFILE
- INDUSTRY STANDARD PACKAGE



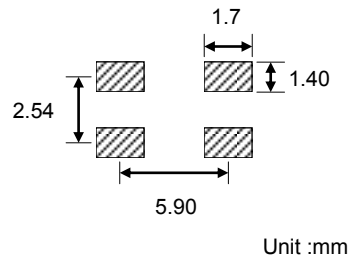
■ SPECIFICATION

FREQUENCY RANGE	6.000MHz ~ 160.000MHz
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: 6.000MHz ~ 8.000MHz : 100Ω max. Fundamental: 8.001MHz ~ 16.000MHz : 60Ω max. Fundamental: 16.001MHz ~ 40.000MHz : 40Ω max. 3rd overtone: 40.001MHz ~ 160.000MHz: 80Ω max.
OPERATION MODE	AT cut, Fundamental or 3 rd overtone

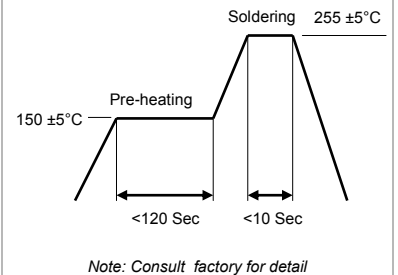
■ PACKAGE DIMENSIONS



■ SOLDER PATTERN



■ REFLOW PROFILE



■ PART NUMBERING GUIDE

CS75 - F - 00 - 00 - HM - 08 - 20.000M - 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 20: 20pF 10: 10pF 22: 22pF 12: 12pF 24: 24pF 16: 16pF 28: 28pF 18: 18pF 32: 32pF S: Series	Other Options TR: Tape and reel																				
Tolerance @ 25°C 00: ± 100ppm 50: ± 50ppm 30: ± 30ppm 25: ± 25ppm 10: ± 10ppm XX: Two digit for Tolerance	Operating Temperature <table border="0"> <tr> <td>A: -55</td> <td>F: -20</td> <td>M: 70</td> <td>S: 100</td> </tr> <tr> <td>B: -50</td> <td>G: -10</td> <td>N: 75</td> <td>T: 105</td> </tr> <tr> <td>C: -40</td> <td>H: 0</td> <td>P: 80</td> <td>U: 125</td> </tr> <tr> <td>D: -35</td> <td>J: 50</td> <td>Q: 85</td> <td>X: custom</td> </tr> <tr> <td>E: -30</td> <td>K: 60</td> <td>R: 90</td> <td></td> </tr> </table>			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	
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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