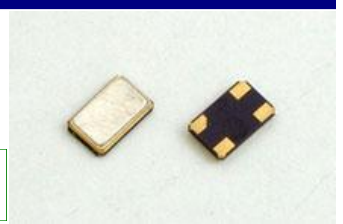


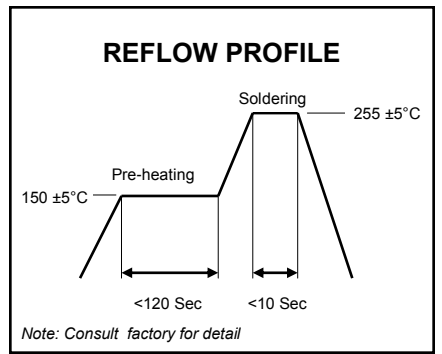
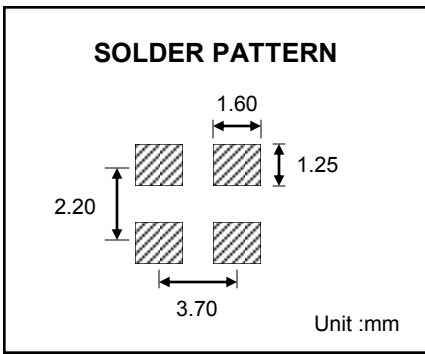
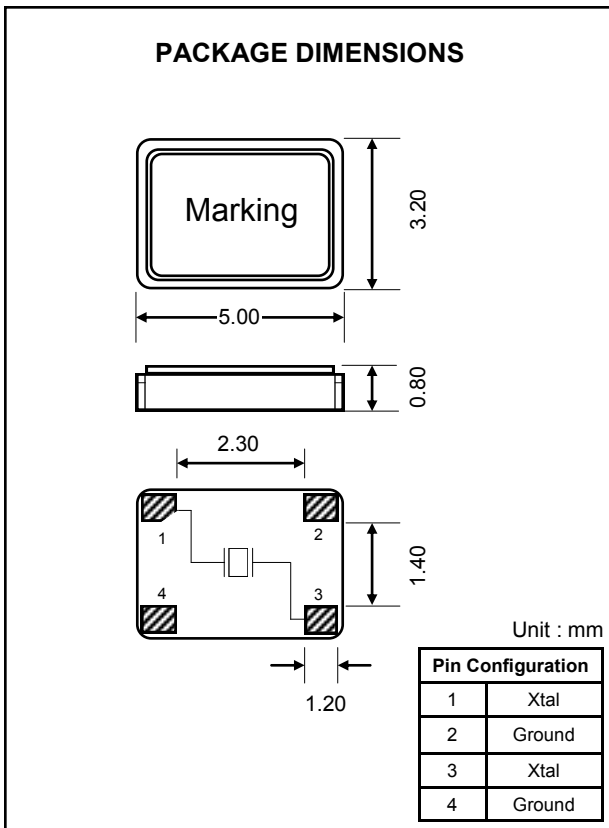
MINIATURE CERAMIC SMD CRYSTAL (5.0 x 3.2 x 0.8mm)
FEATURES:

- HIGH FREQUENCY RANGE
- LOW COST SMD PACKAGE
- LOW PROFILE / SUITABLE FOR REFLOW

RoHS
Compliant



MODEL	CS53A
FREQUENCY RANGE	7.3728MHz ~ 300.000MHz
FREQUENCY TOLERANCE	± 30ppm (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	-55°C to 105°C
SHUNT CAPACITANCE	7.0pF max
LOAD CAPACITANCE	STD: 18pF, (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, Third overtone, or Fifth overtone (see below)
ESR	6.000MHz ~ 9.999MHz: 200Ω max. (Fundamental) 10.000MHz ~ 11.999MHz: 100Ω max. (Fundamental) 12.000MHz ~ 18.999MHz: 70Ω max. (Fundamental) 19.000MHz ~ 60.000MHz: 40Ω max. (Fundamental) 60.000MHz ~ 170.000MHz: 100Ω max. (Third overtone) 180.000MHz ~ 300.000MHz: 180Ω max. (Fifth overtone)



PART NUMBERING GUIDE

CS53A - F - 00 - 00 - HM - 08 - 40.000M - TR

Mode	Stability	Load Capacitance	Other Options
F: Fundamental	00: ± 100ppm	08: 8pF 20: 20pF	TR: Tape and reel
T: Third overtone	50: ± 50ppm	10: 10pF 22: 22pF	
B: Fifth overtone	25: ± 25ppm	12: 12pF 24: 24pF	
	15: ± 15ppm	16: 16pF 28: 28pF	
	10: ± 10ppm	18: 18pF 32: 32pF	

Tolerance @ 25°C	Operating Temperature	Frequency
00: ± 100ppm	A: -55 G: -10 P: 80	M: MHz
50: ± 50ppm(standard)	B: -50 H: 0 Q: 85	
30: ± 30ppm	C: -40 J: 50 R: 90	
25: ± 25ppm	D: -35 K: 60 S: 100	
10: ± 10ppm	E: -30 M: 70 T: 105	
	F: -20 N: 75 U: 125	
	X: custom	

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