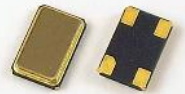


MINIATURE CERAMIC SMD CRYSTAL (5.0 x 3.2 x 1.0mm)

FEATURES:

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



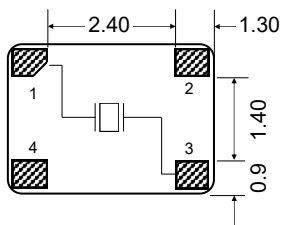
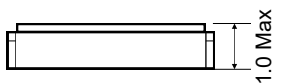
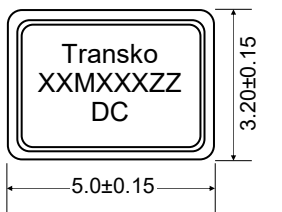
■ SPECIFICATION

FREQUENCY RANGE	7.3728MHz ~ 40.000MHz	
FREQUENCY TOLERANCE @ 25°C	±30ppm (See P/N guide for other options)	
FREQUENCY STABILITY	±50ppm (See P/N guide for other options)	
OPERATING TEMPERATURE	STD: 0°C ~ 70°C, (See P/N guide for other options)	
STORAGE TEMPERATURE RANGE	-55°C ~ 105°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: 7.000MHz ~ 10.000MHz: 100Ω max. 10.001MHz ~ 12.000MHz: 60Ω max. Fundamental: 12.001MHz ~ 19.000MHz: 50Ω max. 19.001MHz ~ 40.000MHz: 40Ω max.	
OPERATION MODE	Fundamental	

■ PACKAGE DIMENSIONS

Marking format

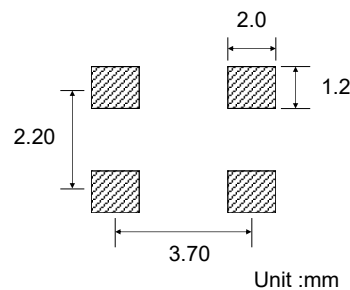
M = decimal point
 XX_XXX = 5 digit freq if ≥10MHz
 X_XXXX = 5 digit freq if <10MHz
 ZZ = load cap code
 DC = YYWW



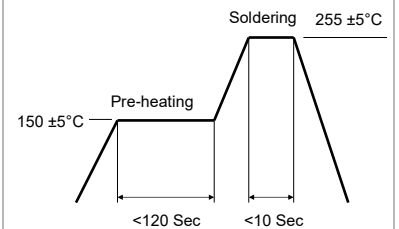
Pin Configuration	
1	Xtal
2	GND
3	Xtal
4	GND

Unit : mm

■ SOLDER PATTERN



■ REFLOW PROFILE



Note: Consult factory for detail

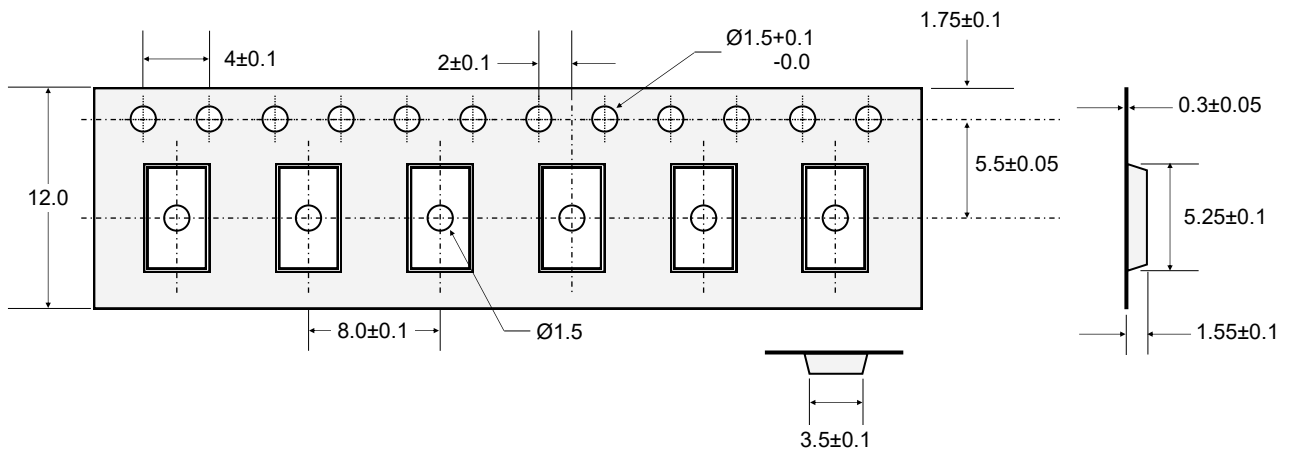
■ PART NUMBERING GUIDE

CX53A – F 30 50 HM 18 – 25.000M – TR

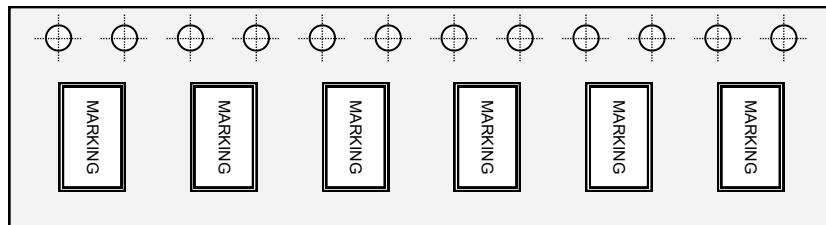
Mode F: Fundamental	Stability 00: ± 100ppm 50: ± 50ppm 25: ± 25ppm 15: ± 15ppm 10: ± 10ppm XX: Two digit for Stability	Load Cap Code XX: 2 digit load value 08: 8pF 20: 20pF 10: 10pF 22: 22pF 12: 12pF 24: 24pF 16: 16pF 28: 28pF 18: 18pF 32: 32pF	Other Options TR: Tape and reel
Tolerance @ 25°C 00: ± 100ppm 50: ± 50ppm 30: ± 30ppm 25: ± 25ppm 10: ± 10ppm XX: Two digit for Tolerance	Operating Temperature 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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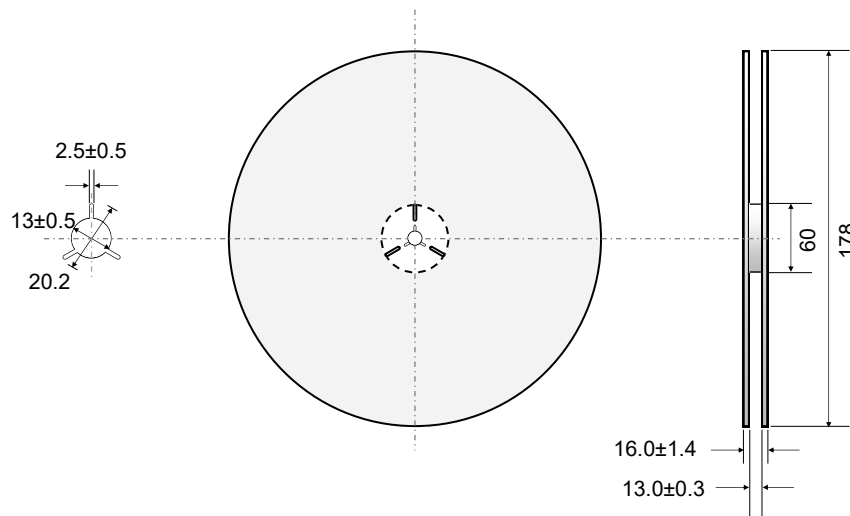
► **Tape (Carrier) Dimensions**



► **The Direction of Packing**



► **Reel Dimensions**



Q'ty: 1000pcs/reel

Unit: mm

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