Transko

CS63A

RoHS Compliant

CERAMIC SMD CRYSTAL (6.0 x 3.5 x 1.0mm)

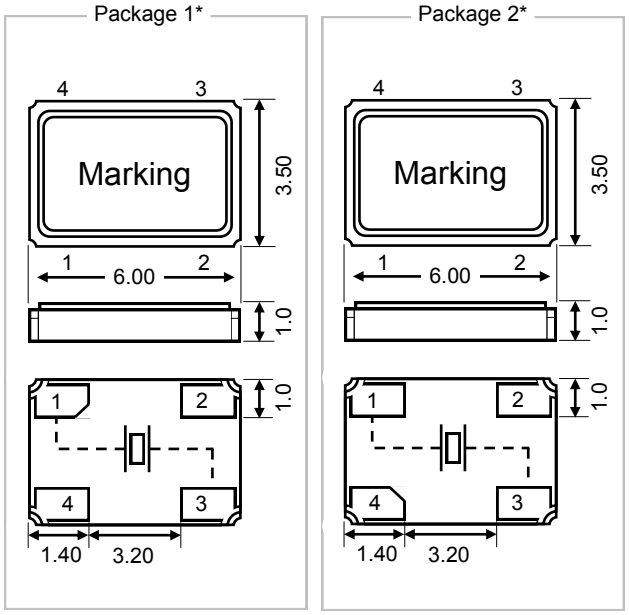
FEATURES:

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

■ SPECIFICATION

FREQUENCY RANGE	7.000MHz ~ 200.000MHz
FREQUENCY TOLERANCE @ 25ºC	±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 / 1st year max.
EQUIVALENT SERIES RESISTANCE	**Fundamental:** 7.000MHz ~ 12.000MHz: 100Ω max. **Fundamental:** 12.001MHz ~ 14.000MHz: 60Ω max. **Fundamental:** 14.001MHz ~ 54.000MHz: 40Ω max. **3rd overtone:** 40.000MHz ~ 200.000MHz: 80Ω max.
OPERATION MODE	AT cut, Fundamental or 3rd overtone

■ PACKAGE DIMENSIONS

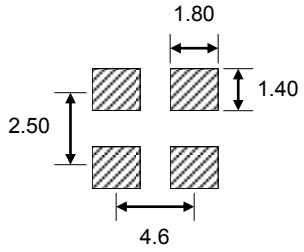


* Package 1 and 2 are provided interchangeably based on material availability.
** Different chamfer location between package 1 and 2.

Unit : mm

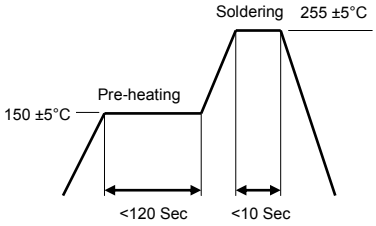
Pin Configuration	
1	Xtal
2	GND
3	Xtal
4	GND

■ SOLDER PATTERN



Unit :mm

■ REFLOW PROFILE



Note: Consult factory for detail

■ PART NUMBERING GUIDE

CS63A – F – 00 – 00 – HM – 08 – 40.000M – TR

Mode
F: Fundamental
T: 3rd overtone

Stability
00: ± 100ppm
50: ± 50ppm
25: ± 25ppm
15: ± 15ppm
10: ± 10ppm
XX: Two digit for Stability

Load Capacitance
08: 8pF
10: 10pF
12: 12pF
16: 16pF
18: 18pF
S: Series
20: 20pF
22: 22pF
24: 24pF
28: 28pF
32: 32pF

Other Options
TR: Tape and reel

Frequency
M: MHz

Tolerance @ 25°C
00: ± 100ppm
50: ± 50ppm
30: ± 30ppm
25: ± 25ppm
10: ± 10ppm
XX: Two digit for Tolerance

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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