

PRODUKT-INFO

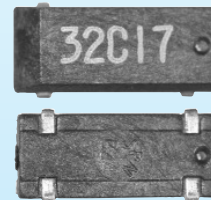
MM-20SS SMD CRYSTAL (UHRENQUARZ) TUNING FORK CRYSTAL

FEATURES

1. Plastic package.
2. Embedded with heat resistant cylinder type crystal bring highly stable characteristics.
3. Automatic mounting and reflowable type.

APPLICATION

For clock source for portable and automotive equipment with low power consumption.



Actual Size

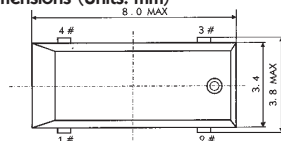


ELECTRICAL SPECIFICATIONS	
Model	MM-20SS
Frequency	32.768 kHz
Frequency Tolerance (at +25°C)	±10 ppm / ±20 ppm
Turnover Temperature	+25°C ±5°C
Temperature Coefficient	-0.034 ±0.006 ppm/°C ² typical
Motional (Series) Resistance	50 kΩ max.
Load Capacitance (C _L)	12.5 pF typical (Customer Spec.)
Shunt Capacitance	1.35 pF typical
Drive Level	1 μW max.
Operating Temperature Range	-10°C to +60°C, -40°C to +85°C option
Storage Temperature Range	-55°C to +125°C
Aging (at +25°C) first year	±3 ppm / year max.

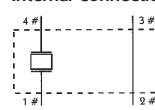
CROSS REFERENCES:

- MC-306 EPSON
- CM-200S CITIZEN
- CM-200C CITIZEN

Dimensions (Units: mm)

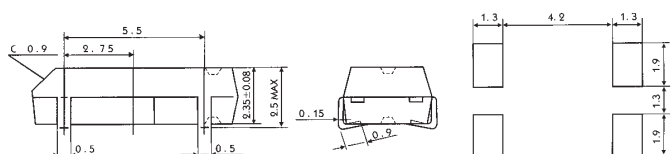


Internal Connection

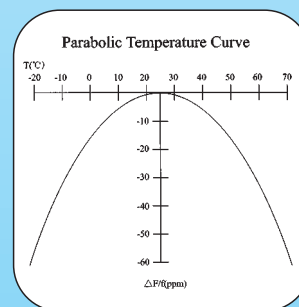


Do not connect #2 and #3 to external device.

Recommended Solder Pattern

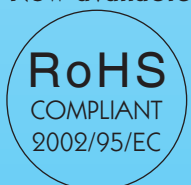


8.0 x 3.8 x 2.5



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All specifications subject to change without notice.