

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

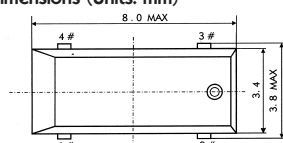


| ELECTRICAL SPECIFICATIONS | |
|------------------------------------|---|
| Model | MM-20SS |
| Frequency | 32.768 kHz |
| Frequency Tolerance (at +25°C) | ±10 ppm / ±20 ppm |
| Turnover Temperature | +25°C ±5°C |
| Temperature Coefficient | -0.034 ±0.006 ppm/°C ² typical |
| Motional (Series) Resistance | 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 | -40°C to +85°C |
| Storage Temperature Range | -55°C to +125°C |
| Aging (at +25°C) first year | ±3 ppm / year max. |

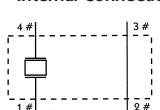
CROSS REFERENCES:

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

Dimensions (Units: mm)

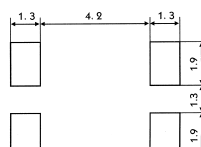
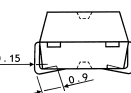
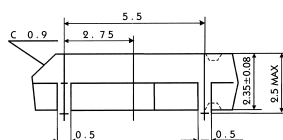


Internal Connection



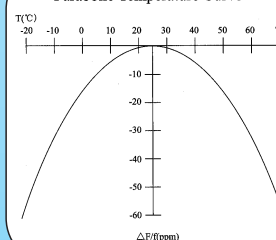
Do not connect #2 and #3 to external device.

Recommended Solder Pattern



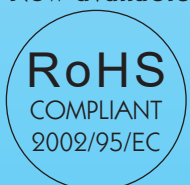
8.0 x 3.8 x 2.5

Parabolic Temperature Curve



Crystals...
and more

Now available



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All specifications subject to change without notice.