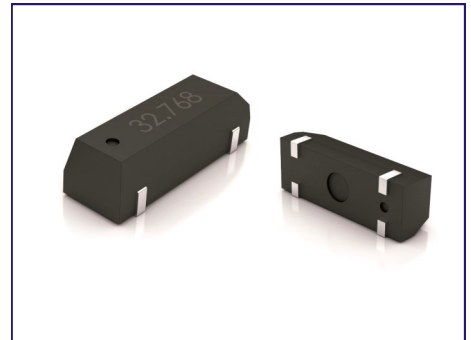


TUNING FORK CRYSTAL UNIT IN SMD 8.0x3.8mm RESIN MOLD PACKAGE.
PRODUCT FEATURES

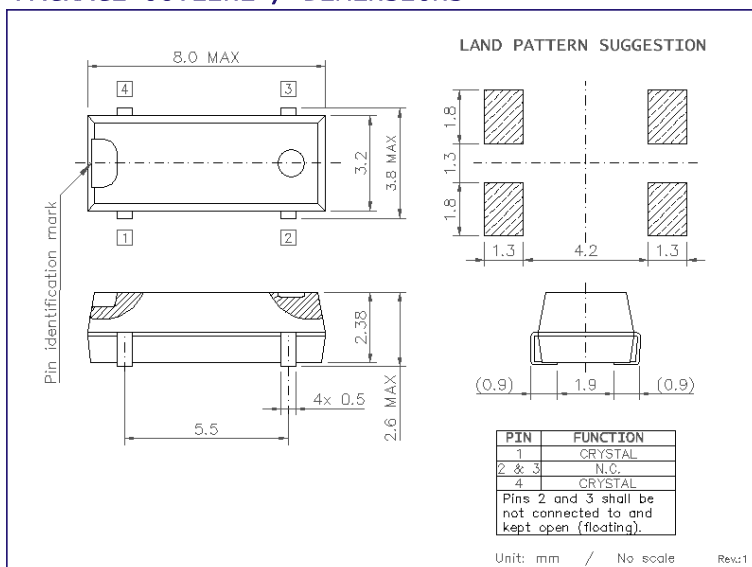
- Package dimensions 8.0x3.8x2.5mm with 4 J-leads.
- Reliable resin mold SMD package suitable for SMT.
- Heat resistant mold allowing high temperature reflow.
- Suitable for low power consumption applications.
- RoHS compliant by exemption.

APPLICATIONS

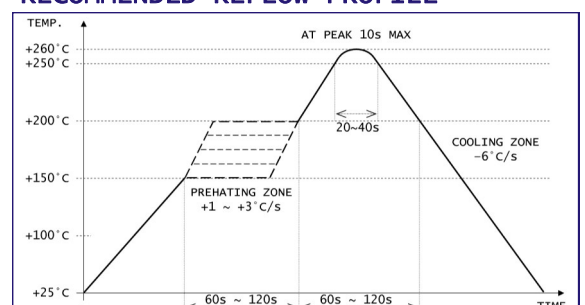
- Real time clocks
- Microprocessors
- Timers and controllers
- Meters and handheld devices

PRODUCT PHOTO (NOT IN SCALE)

PRODUCT SPECIFICATIONS

| PARAMETER | FR08S4 | | CONDITIONS / REMARKS | | |
|------------------------------------|------------------------------|------------------|--|----------|------------|
| Nominal frequency range | 32.768kHz | 20 ~ 165kHz | Please contact us for available frequencies. | | |
| Vibration mode | Fundamental | | | | |
| Frequency tolerance | ±20ppm / ±50ppm | ±50ppm / ±100ppm | Other options available. | | |
| Stability over temperature | -0.04ppm/°C ² MAX | | Parabolic coefficient. | | |
| Operating temperature range | -20 to +70°C or -40 to +85°C | | Other options available. | | |
| Turnover temperature | +25±5°C | | | | |
| Equivalent series resistance (ESR) | <50kΩ | <60kΩ | 20~31.2kHz | <20kΩ | 40~130kHz |
| | | <50kΩ | 31.2~40kHz | <10kΩ | 130~165kHz |
| Shunt capacitance | 0.9pF | 0.6~2.0pF | Depending on frequency. | | |
| Motional capacitance | 1.8fF | 0.6~4.0fF | Depending on frequency. | | |
| Load capacitance | 6, 7, 9 or 12.5pF | 6~32pF or SERIES | Please specify. | | |
| Drive level | 0.1μW TYP / 1.0μW MAX | | | | |
| Aging per year | ±3ppm | | | At +25°C | |

PACKAGE OUTLINE / DIMENSIONS

PACKAGING INFORMATION

- Tape & Reel compliant to EIA-481.
- Embossed carrier width 16mm.
- Component pitch in carrier 8mm.
- Reel diameter 330mm.
- QTY per reel: 3,000pcs

RECOMMENDED REFLOW PROFILE


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