PRODUKT-INFO

MM-11B SMD CRYSTAL (UHRENQUARZ)

TUNING FORK CRYSTAL

FEATURES

- 1. Ultra-miniature type of SMD.
- 2. Highly stable characteristics high enough to permit reflow soldering.
- 3. Can be mounted automatically.
- 4. Low consumption makes it ideal for application to portable equipment.
- 5. Plastic package.



Actual Size

ELECTRICAL SPECIFICATIONS	
Model	MM-11B
Nominal Frequency	32.768 kHz
Frequency Tolerance (at +25°C)	±20 ppm
Frequency vs Temperature	See drawing
Turnover Temperature	+25°C ±5°C
Temperature Coefficient	-0.034 ± 0.006 ppm/°C ² typical
Operating Temperature Range	-40°C to +85°C
Storage Temperature Range	−55°C to +125°C
Equivalent Series Resistance	65 kΩ max.
Load Capacitance (C _L)	12.5 pF typical
Motional Capacitance	0.0023 pF typical
Shunt Capacitance	1.2 pF max.
Drive Level	1 μW max.
Insulation Resistance	500 M Ω min. at 100 V $_{DC}$ \pm 15 V
Aging (at +25°C) first year	±3 ppm / year max.
Sealing	1 x 10 ⁻² μ Pa • m ³ /s max.



