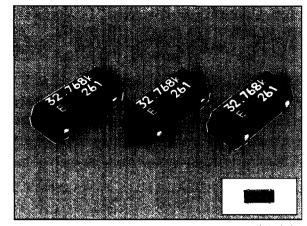
SMALL SMD LOW/MEDIUM-FREQUENCY QUARTZ CRYSTAL

MC-306

- High-density mounting-type SMD.
- Photolithography finish allows uniform and stable performance.
- Excellent reliability and environmental capability.
- 2.54mm thickness is equal to SMD-type IC.



Actual size

■ Specifications (characteristics)

| Item | | Symbol | Specifications | | Remarks |
|-------------------------------------|-----------------------|----------------|---|---------------------------|---|
| Nominal frequency | | f | 32.768 kHz | 20.000 kHz to 165.000 kHz | Please consult us except for 32.768 kHz |
| Temperature range | Storage temperature | Тѕтс | -55°C to +125°C | | Stored as bare product after unpacking |
| | Operating temperature | Торя | -40°C to +85°C | | |
| Maximum drive level | | GL | 1.0µW max. | | |
| Soldering condition | | TsoL | Twice at under 260°C within 10 sec. or under 230°C within 3 min. | | |
| Frequency tolerance (standard) | | Δf/f | ±20ppm or ±50ppm | ±50ppm, ±100ppm | Ta=25°C, DL=0.1μW |
| Peak temperature (frequency) | | θТ | 25°C ±5°C | | |
| Temperature coefficient (frequency) | | а | -0.04ppm/°C² max. | | |
| Load capacitance | | CL | 6pF to ∞ | | Please specify |
| Series resistance | | Rı | 50 kΩ max. | 55 kΩ to 10 kΩ | |
| Motional capacitance | | C ₁ | 1.8fF typ. | 4.0fF to 0.6fF | |
| Shunt capacitance | | Co | 0.9pF typ. | 2.0pF to 0.6pF | |
| Insulation resistance | | IR | 500 MΩ min. | | |
| Aging | | fa | ±3ppm/Y max. | ±5ppm/Y max. | Ta=25°C ±3°C. first year |
| Shock resistance | | S.R. | ±5ppm max. | | Three drops on a hard board from 75 cm or excitation test with 3000G x 0.3ms x 1/2 sine wave x 3 directions |

