



Features

- ▄▄▄▄ Unique square profile case for pick & place
- ▄▄▄▄ Low cost
- ▄▄▄▄ Large stocks held at all times
- ▄▄▄▄ Miniature size for high density applications
- ▄▄▄▄ High shock & vibration resistance
- ▄▄▄▄ Wide temperature range

Standard Frequencies

| Frequencies in kHz | |
|--------------------|----------|
| 32.76800 | 76.80000 |
| 38.40000 | 77.50000 |
| 75.00000 | |

Specifications

| Parameters | Product | Option Codes |
|--|------------------|-------------------------------|
| | MS3V | |
| Termination: Gold flashed leads, 1.00mm pitch | ■ | T1R |
| Frequency range: 32.768kHz 32.0 ~ 200kHz | ■ □ | specify |
| Calibration tolerance: ±20ppm ±30ppm ±100ppm | ■ □ □ | specify specify |
| Operating temperature range: -40 to +85°C | ■ | |
| Storage temperature range: -55 to +125°C | ■ | |
| Circuit condition: 7pF 9pF 12.5pF Other values | □ □ ■ □ | specify specify specify |
| Static capacitance (C₀): 0.9pF typ | ■ | |
| Motional capacitance (C₁): 2.1fF typ | ■ | |
| Equivalent series resistance: 65kΩ max @ 25°C 90kΩ max after reflow | ■ ■ | |
| Ageing: ±3ppm max first year | ■ | |
| Drive level: 1.0μW max | ■ | |
| Turnover temperature (T₀): +25°C ±5°C | ■ | |
| Frequency / temp coefficient: -0.035ppm/°C ² ±10% typ | ■ | |
| Shock resistance: ±5ppm max 5,000g, 0.3ms, ½ sine | ■ | |
| Vibration resistance: ±5ppm max 20g rms 10.0 ~ 2,000Hz | ■ | |
| Soldering conditions: 260°C, 20sec max | ■ | |

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Product name + termination + frequency + calibration tol.
eg: **MS3V-T1R 32.768kHz ±20ppm** (standard)
Option code X (eg MS3V-T1R/X) denotes a custom spec.

- ◆ Available on T&R - 2k or 9k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.
- ◆ Specifications vary by frequency. Specifications shown are for 32.768kHz.