



Features

- ▄▄▄▄ *Unique square profile case for pick & place*
- ▄▄▄▄ *Miniature size for high density applications*
- ▄▄▄▄ *High shock & vibration resistance*
- ▄▄▄▄ *Wide temperature range*

Specifications

Parameters	Product	Option Codes
	MS5V	
Termination: Gold flashed leads, 1.00mm pitch	■	T1R
Frequency range: 32.768kHz 32.0 ~ 200kHz	■ □	specify
Calibration tolerance: ±20ppm ±100ppm	■ □	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): 1.0pF typ	■	
Motional capacitance (C₁): 3.7fF typ	■	
Equivalent series resistance: 60kΩ typ, 80kΩ 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: **MS5V-T1R 32.768kHz ±20ppm** (standard)
Option code X (eg MS5V-T1R/X) denotes a custom spec.

- ◆ Available on T&R - 2k or 10k pcs per reel.
- ◆ Refer to our website for T&R and soldering details.
- ◆ Specifications vary by frequency. Specifications shown are for 32.768kHz.