







Specifications

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

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

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	

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 - 1k 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.