



Scale 3:1

Features

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

Standard Frequencies

Frequencies in kHz		
32.000	38.400	76.800
32.768	75.000	77.500

Specifications

Parameters	Product	Option Codes
	MS2V	
Termination: Gold flashed leads, 1.27mm pitch Tin plated leads, 1.27mm pitch	<input checked="" type="checkbox"/> <input type="checkbox"/>	T1S T2S
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: 12.5pF other values	<input checked="" type="checkbox"/> <input type="checkbox"/>	specify
Static capacitance (C₀): 0.9pF typ	<input checked="" type="checkbox"/>	
Motional capacitance (C₁): 2.1fF typ	<input checked="" type="checkbox"/>	
Equivalent series resistance: 60kΩ typ, 90kΩ max @ 25°C	<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

Ordering Information

Product name + termination + frequency + calibration tol.
eg: **MS2V-T1S 32.768kHz ±20ppm** (standard)
Option code X (eg MS2V-T1S/X) denotes a custom spec.

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