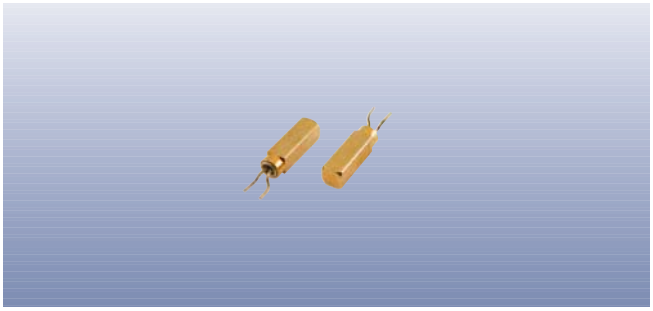
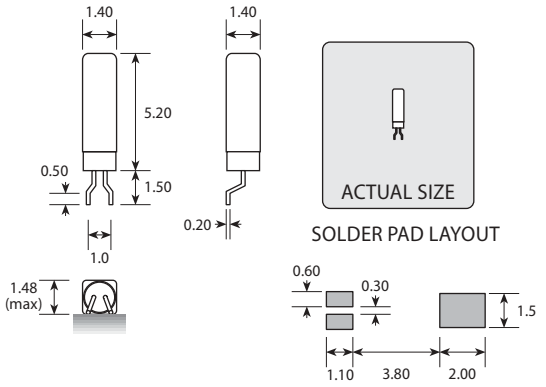
SM Crystal

MS3V





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		
32.768 38.400	75.000 76.800	77.500

Specifications

Parameters	Product MS3V	Option Codes
Termination: Gold flashed leads, 1.00mm pitch Gold flashed leads, 1.27mm pitch	 ■ □	 T1R T1S
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: 12.5pF other values	■ □	 specify
Static capacitance (C_0): 0.9pF typ	■	
Motional capacitance (C_1): 2.1fF typ	■	
Equivalent series resistance: 60kΩ typ, 90kΩ max @ 25°C	■	
Ageing: ±3ppm max first year	■	
Drive level: 1.0µW max	■	
Turnover temperature (T_0): +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 - 9k pcs per reel.
- Refer to our website for T&R and soldering details.
- Specifications vary by frequency. Specifications shown are for 32.768kHz.

Tel: **+44 1460 256 100** Fax: **+44 1460 256 101** E-mail: **sales@golledge.com** Web: **www.golledge.com**

Golledge

03 Mar 2004