

CM8V03-T1A

Ultra-Miniature Low Profile 32.768kHz SM Watch Crystal



- Ultra low profile - 0.35mm
- High shock & vibration resistance
- Extended temperature range option
- Ultra-miniature 2012 form factor package
- Low power consumption

CONFIGURABLE OPTIONS

Parameter	Option Code
Calibration tolerance	
±20ppm	
±100ppm	
Operating temperature range	
Any	
-40 to +85 °C	
-40 to +125 °C	E
-55 to +125 °C	M
Circuit condition	
Any	
4pF	
6pF	
7pF	
9pF	
12.5pF	

SPECIFICATIONS

Frequency	32.768kHz
Dimensions	2.0 x 1.2 x 0.35mm
Storage temperature range	-55 to +125 °C
Static capacitance (C ₀)	1.2pF typ
Motional capacitance (C ₁)	4.7fF typ
Equivalent series resistance	90kΩ max
Ageing	±3ppm max first year
Drive level	0.5μW max
Turnover temperature (T ₀)	+25 °C ±5 °C
Frequency / temp coefficient	-0.035ppm/°C ² typ
Shock resistance	±5ppm, 5,000g, 0.3ms, ½ sine
Vibration resistance	±5ppm, 20g, 10.0 ~ 2,000Hz
Terminations	Gold plated pads
Soldering condition	Reflow, 260 °C, 20-40 seconds

HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to < 500V)



Moisture Sensitivity Level (MSL): 1

ORDERING INFORMATION

To request a quotation for the CM8V03-T1A please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

CONSTRUCTION

Ceramic base with metal lid

COMPLIANCE



[REACH Compliance Statement](#)



text and link to Conflict Minerals pdf statement



Text and link to Halogen Free pdf statement



Text and link to Ozone depletion statement pdf



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions.



Nominal Net Mass: 3.4mg