# CM7V03-T1A

## Low Profile SM 32.768Khz Watch Crystal with Military Temperature Range

- Ultra low profile (0.35mm)
- Miniature ceramic package with metal lid
- High shock & vibration resistance
- Low power consumption

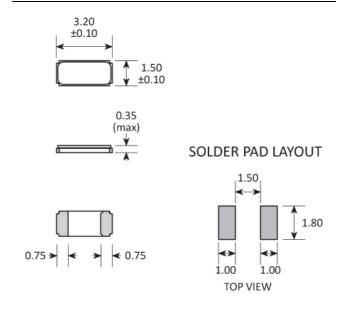


CONFIGURABLE OPTIONS	
Parameter	Option Code
Operating temperature range	
Any	
-40 to +85°C	
-40 to +125°C	Е
-55 to +125°C	M
Circuit condition	
Any	
7pF	
9pF	
12.5pF	

## **SPECIFICATIONS**

Frequency	32.768kHz
Dimensions	3.2 x 1.5 x 0.35mm
Calibration tolerance	±20ppm
Operating temperature	-40 to +85°C
range	
Storage temperature	-55 to +125°C
range	
Static capacitance (C <sub>0</sub> )	1.4pF typ
Motional capacitance (C <sub>1</sub> )	3.5fF typ
Equivalent series	$55$ k $\Omega$ typ, $80$ k $\Omega$ max @ $25$ °C
resistance	
Ageing	±3ppm max first year
Drive level	0.5µW max
Turnover temperature	+25°C ±5°C
(T <sub>0</sub> )	
Frequency / temp	-0.035ppm/°C <sup>2</sup> ±10%
coefficient	
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 sec max
_	

## **PACKAGE DRAWING**



Dimensions in mm

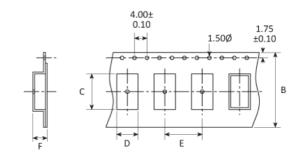
## **ORDERING INFORMATION**

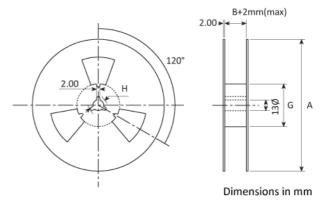
To request a quotation for the CM7V03-T1A please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at <a href="mailto:sales@golledge.com">sales@golledge.com</a>.

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.

#### **TAPE & REEL SPECIFICATION**





A:178\* B:12 C:3.5 D:1.8 E:4 F:1.1 G:80 H:21
\*Larger reel size available. Please ask for details

## **HANDLING & STORAGE**



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



Moisture Sensitivity Level (MSL): 1 (or not applicable)

#### CONSTRUCTION

Ceramic base with metal lid

#### **COMPLIANCE**

#### OTHER INFORMATION

The CM7V03-T1A was previously named CM7V04-T1A.



Lead-free (< 0.1% by weight)

RoHS compliant with no exemptions.

declaration

REACH compliant. See our statement

Free of conflict minerals. See our declaration

Free of Halogens. See our declaration

Free of Ozone-depleting substances. See our

declaration