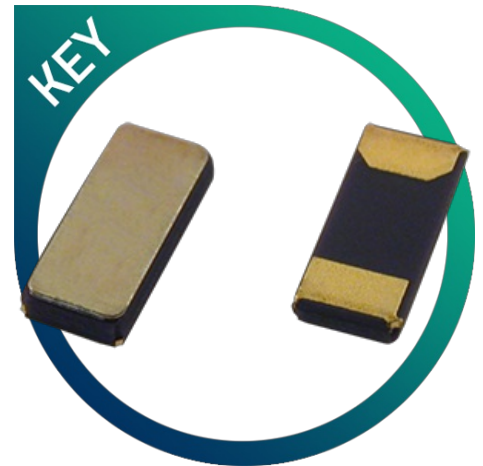


CM7V-T1A

SM 32.768kHz Watch Crystal with Military Temperature Range

- Miniature ceramic package with metal lid
- High shock & vibration resistance
- Extended temperature range options
- AEC-Q200 Automotive option
- Low power consumption



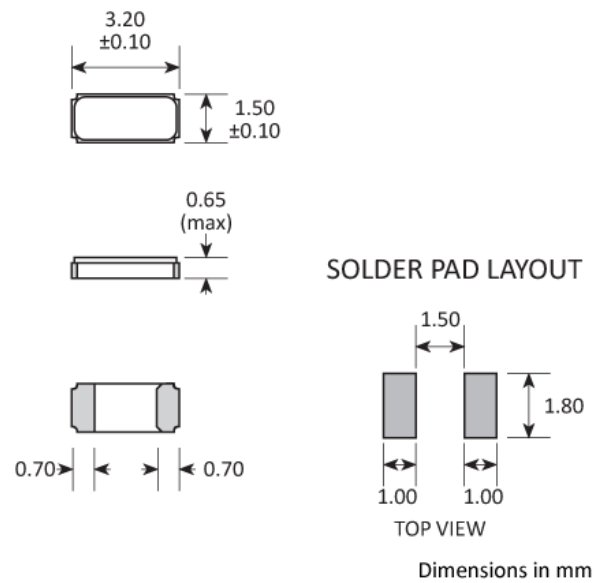
CONFIGURABLE OPTIONS

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	
6pF	
7pF	
9pF	
12.5pF	
Qualification	
Any	
Commercial	
AEC-Q200 (Automotive)	A

SPECIFICATIONS

Frequency	32.768kHz
Dimensions	3.2 x 1.5 x 0.65mm
Storage temperature range	-55 to +125°C
Static capacitance (C ₀)	1.2pF typ
Motional capacitance (C ₁)	3.7fF typ
Equivalent series resistance	50kΩ typ, 70kΩ 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%
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



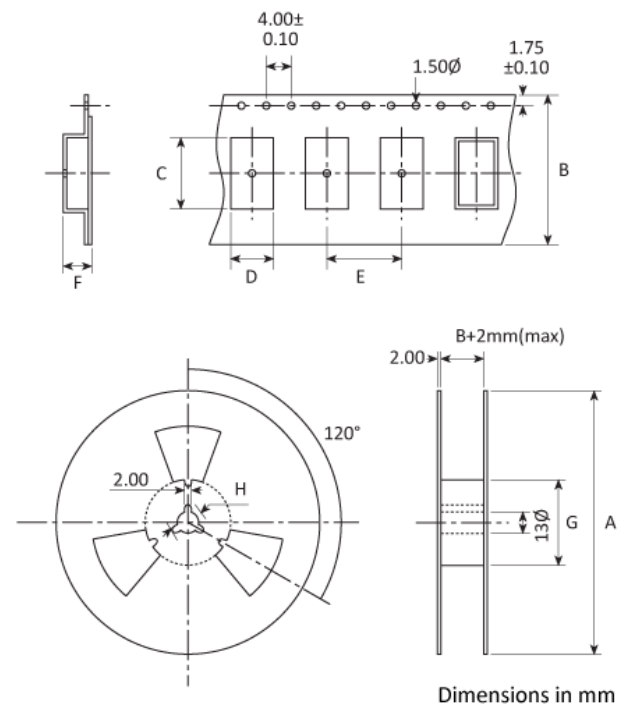
ORDERING INFORMATION

To request a quotation for the CM7V-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.

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

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)



RoHS 2 compliant with no exemptions. [See our 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](#)

OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).

To take advantage of our highly praised service get in touch with us today.