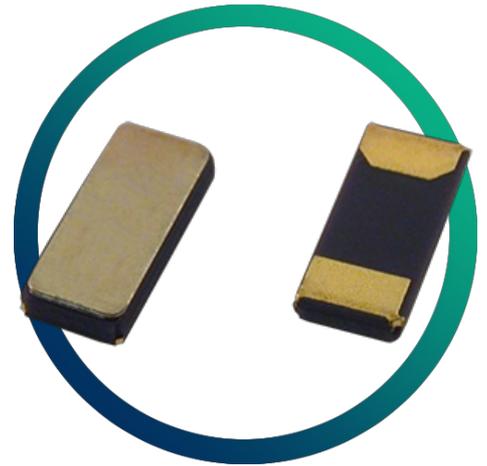


CM7V-T1A

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
- Optional low ESR of 40kΩ typ

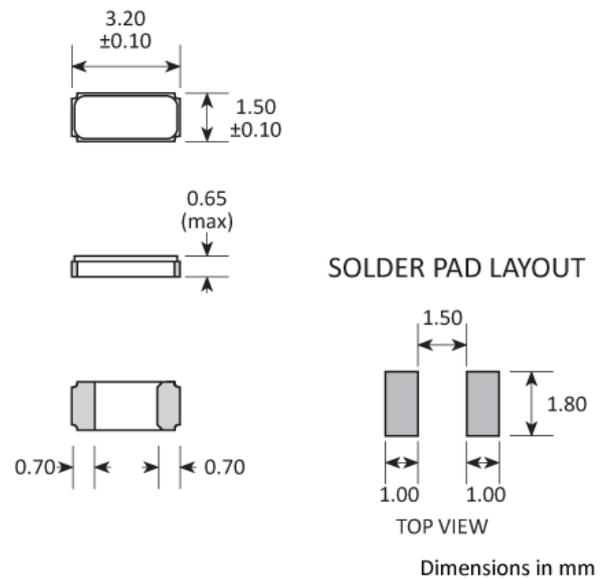
CONFIGURABLE OPTIONS

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	
Equivalent series resistance (ESR)	
Any	
50kΩ typ, 70kΩ max @ 25 °C	
40kΩ typ, 50kΩ max @ 25 °C	L
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 (1.3pF typ option L)
Motional capacitance (C ₁)	3.7fF typ (4.7fF typ option L)
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



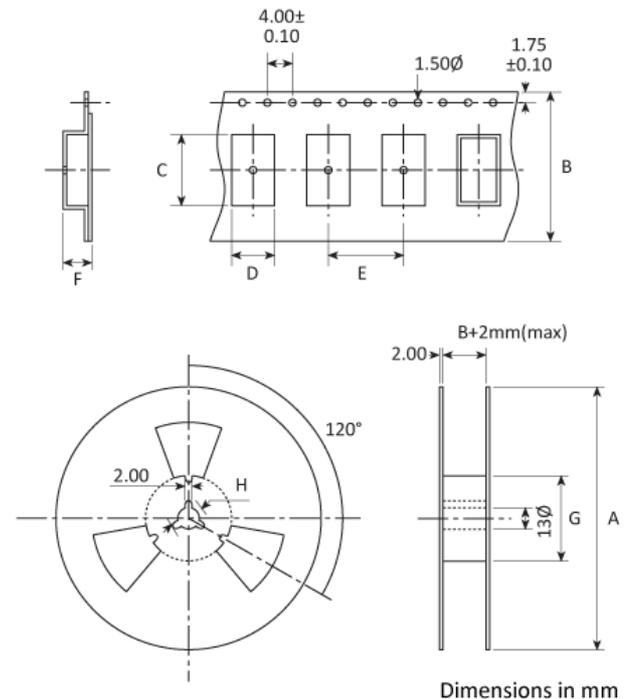
ORDERING INFORMATION

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

COMPLIANCE

Please refer to our **DOCUMENTS** section for more information.



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions.



REACH compliant.



Free of conflict minerals.



Free from halogens.



Free from ozone-depleting substances.