# TECHP®INT | Golledge

## CC8A-T1A

### High Frequency Fundamental Mode SM Crystal -55+125°C

- Fully ceramic package
- Military temperature range -55+125°C option
- High stability & low ageing
- High shock & vibration resistance
- Fundamental mode up to 50MHz

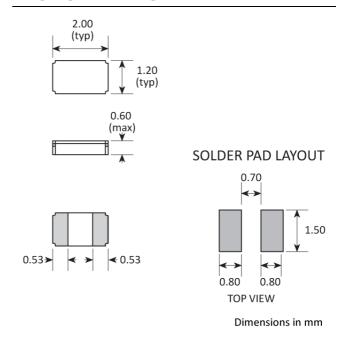


CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Temperature stability	
Any	
±50ppm over -40 to +85°C	TA
±80ppm over -40 to +125°C	ТВ
±100ppm over -55 to +125°C	TC
Circuit condition	
Any	
3pF	
9pF	
16pF	

#### **SPECIFICATIONS**

Frequency	24.0 ~ 50.0MHz
range	24.0 · 30.0WH12
Dimensions	2.0 x 1.2 x 0.6mm
Calibration	±50ppm
tolerance (@	=30ррііі
25°C)	
Storage	-55 to +125°C
temperature	
range	
Oscillation	Fundamental
mode	
Equivalent	40Ω typ, 100Ω max (24.0 ~ 27.99MHz)
series	30Ω typ, 80Ω max (28.0 ~ 39.99MHz)
resistance	20Ω typ, 60Ω max (40.0 ~ 50.0MHz)
Motional	1fF typ, 3fF max
capacitance (C <sub>1</sub> )	
Static	0.7pF typ
capacitance (C <sub>0</sub> )	
Ageing	±3ppm max first year
Test drive level	100μW typ, 250μW max
Shock	5,000g, 0.3ms, ½ sine
resistance	
Vibration	20g rms 10.0 ~ 2,000Hz
resistance	
Terminations	Gold flashed pads
Soldering	260°C, 20s max
condition	

#### **PACKAGE DRAWING**



#### **ORDERING INFORMATION**

To request a quotation for the CC8A-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.

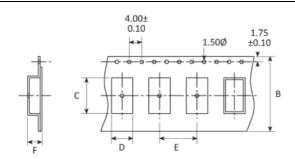
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

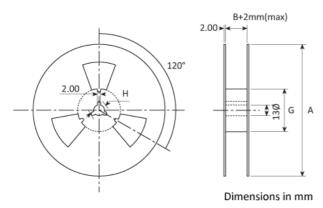
#### **APPLICATIONS**

The CC8A-T1A crystal is ideal for a range of applications including:

Telemetry
Optical networks
Airborne equipment
Healthcare and medical
Radio communications

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





A:178 B:8 C:2.2 D:1.4 E:4 F:0.9 G:61.5 H:21

#### **HANDLING & STORAGE**



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

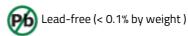


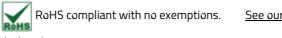
Moisture Sensitivity Level (MSL): 1 (or not applicable)

#### CONSTRUCTION

Ceramic base and lid

#### **COMPLIANCE**





<u>declaration</u>







