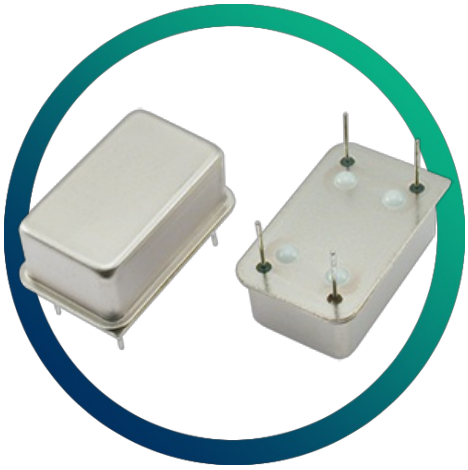
SCOCXOLW

3.3V OCXO with CMOS Output and Fast Warm Up



- Fast warm up times
- Low power consumption
- Wide operating temperature range
- Compact 14-pin DIL package (SMD optional)
- High shock and vibration resistance

CONFIGURABLE OPTIONS

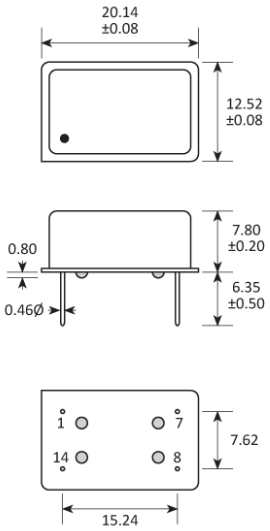
Parameter	Option Code
Frequency	
Temperature stability (±ppb max)	
Any	
±0.075ppm max, 0 to +60°C	A
±0.05ppm max, 0 to +60°C	TA
±0.15ppm max, -20 to +70°C	B
±0.075ppm max, -20 to +70°C	TB
±0.25ppm max, -40 to +85°C	C
±0.10ppm max, -40 to +85°C	TC
±0.4ppm max, -55 to +85°C	E
±0.2ppm max, -55 to +85°C	TE
Frequency adjustment	
Any	
±2.5ppm via control voltage 0V ~ 3.3V	V
±2.5ppm via variable resistor 0~10kΩ	R
None (int accuracy ±1.0ppm)	A
None (int accuracy ±0.5ppm)	B
Package	
Through hole 14 pin DIL	
SMD option D1	D1
SMD option D2	D2

SPECIFICATIONS

Frequency range	10.0kHz ~ 54.0MHz
Dimensions	20.1 x 12.5 x 8.0mm
Frequency stability	±0.3ppm max first year ±2.5ppm max in 10 years ±0.1ppm max vs V_{DD} ±10ppb max vs load ±10%
Short term stability	$1x10^{-10}$ max, t 0.1 to 30s $5x10^{-11}$ typ at 1s
Storage temperature range	-55 to +125°C
Output waveform	CMOS '0'=+0.4V max, '1'=V_{DD}-0.5V min 40:60 max Rise/fall times 7ns max (no load)
Load	3pF min, 47pF max
Start up time	5ms max
Supply voltage (V_{DD})	+3.3V (±0.15V)
Input current	350mA max for up to 10s @ 25°C during start up 80mA max @ +25°C 120mA max @ -20°C
Warm up time (secs)	30s to within ±0.1ppm @ 25°C
Phase noise (dB typ @ 10.0MHz)	-100dBc/Hz @ 10Hz -130dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -145dBc/Hz @ 10kHz
Shock & vibration	5,000g, 0.3ms ½-sine 10.0 ~ 2,000Hz, 20g

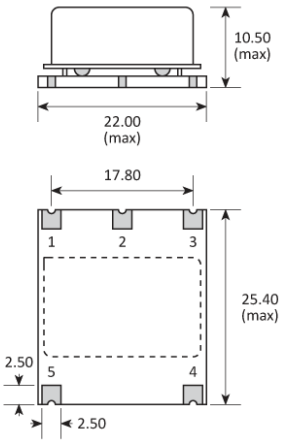
PACKAGE DRAWING

Through-hole (DIL-14)



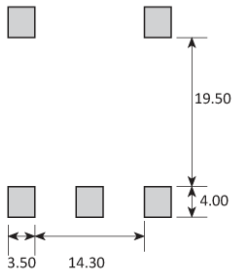
PIN	CONNECTION
1	Freq adjustment or Ground
7	Ground
8	Output
14	Supply

SMD Option D1 - mounted PCB



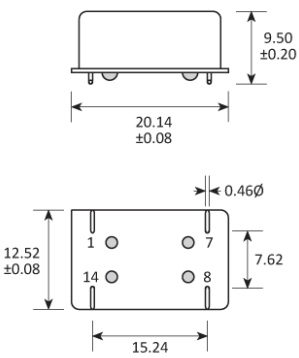
PAD	CONNECTION
1	Freq adjustment or Ground
2	Not connected
3	Supply
4	Output
5	Ground

SOLDER PAD LAYOUT



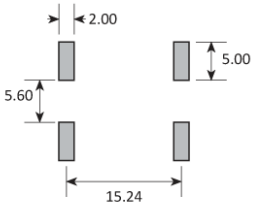
TOP VIEW

SMD Option D2 - formed leads



PIN	CONNECTION
1	Freq adjustment or Ground
7	Ground
8	Output
14	Supply

SOLDER PAD LAYOUT



Dimensions in mm

ORDERING INFORMATION

To request a quotation for the SCOCXOLW 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.

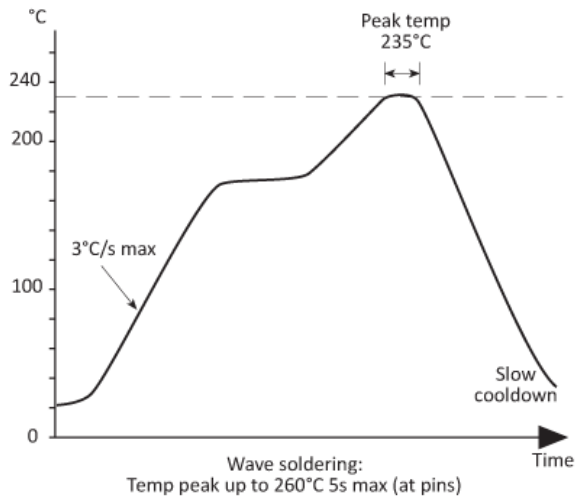
Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

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

APPLICATIONS

Digital switching
Telecomm transmission
SONET, SDH, DWDM, FDM/36, WIMAX
Airborne equipment
Battery operated systems

SOLDERING PROFILE



HANDLING & STORAGE

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

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

CONSTRUCTION

Resistance weld

COMPLIANCE

RoHS 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