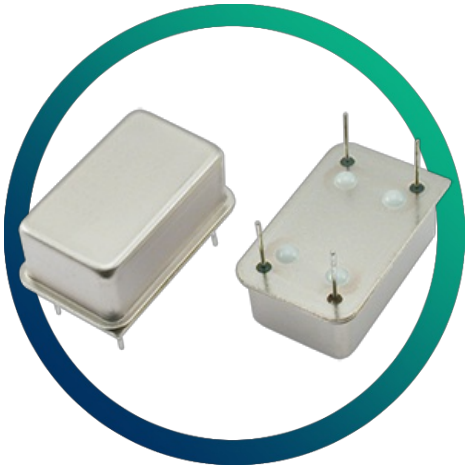
SCOCXOS

12V Tight Stability OCXO with Sine Output



- Ultra high stability
- Compact 14-pin DIL package (SMD optional)
- 12.0V supply voltage
- Sinewave output
- Very fast warmup

CONFIGURABLE OPTIONS

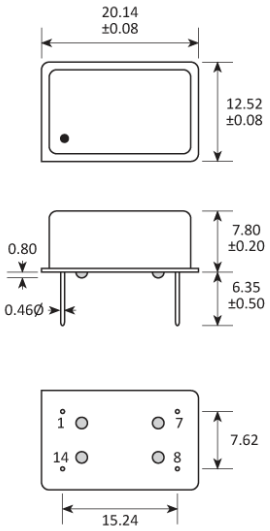
Parameter	Option Code
Frequency	
Temperature stability	
Any	
±0.025ppm max, 0 to +60°C	A
±0.05ppm max, -20 to +70°C	B
±0.1ppm max, -40 to +85°C	C
Frequency adjustment	
Any	
±2.5ppm min. via control voltage 0.5~5.0V	V
±2.5ppm min. via variable resistor 0~10kΩ	R
None (int accuracy ±1.0ppm)	A
None (int accuracy ±0.5ppm)	B
Package	
Through hole 14 pin DIL	
SMD option 1	D1
SMD option 2	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 over V_{DD} ±0.5V ±10ppb max vs load ±5%
Short term stability	$1x10^{-10}$, t 0.1 to 30s $5x10^{-11}$ typ at 1s
Storage temperature range	-65 to +125°C
Output waveform	Sinewave, 1kΩ // 5pF Harmonics < -10dBc Spurii < -70dBc
Level	>1V_{pp} (≤20MHz) >1V_{pp} (>20MHz)
Supply voltage (V_{DD})	+12.0V (±0.5V)
Input current	250mA max for up to 10s @ 25°C during start up 50mA max @ +25°C 80mA max @ -20°C
Warm up time	30s to within ±0.1ppm @ 25°C
Phase noise (typ @ 10MHz)	-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

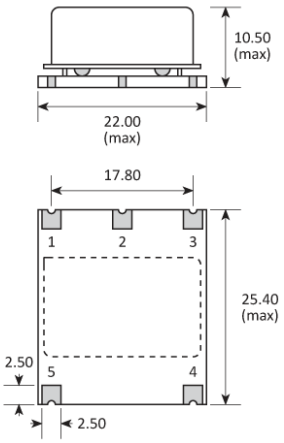
PACKAGE DRAWING

Through-hole (DIL-14)



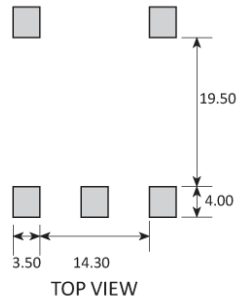
PIN	CONNECTION
1	Freq adjustment or Ground
7	Ground
8	Output
14	Supply

SMD Option D1 - mounted PCB



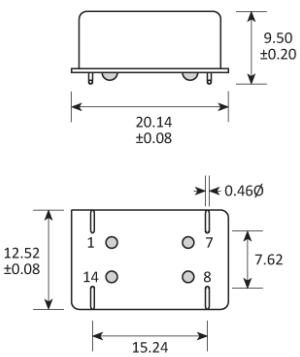
PAD	CONNECTION
1	Freq adjustment or Ground
2	Not connected
3	Supply
4	Output
5	Ground

SOLDER PAD LAYOUT



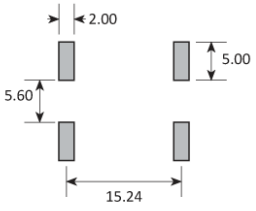
TOP VIEW

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 SCOCXOS 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.

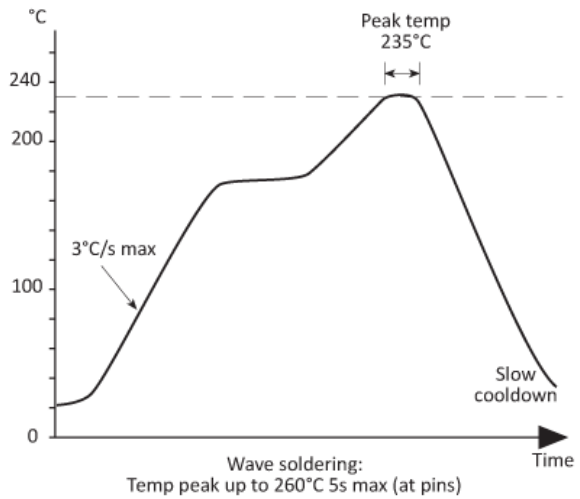
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

APPLICATIONS

This SCOCXOS oven controlled oscillator is suitable for a wide range of applications including:

Digital switching
Telecom transmission
SONET / SDH / DWDM / FDM/36 / WIMAX
Airborne equipment
Battery operated systems
Instrumentation
Radio transceivers

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