

SCOCXO

12V OCXO CMOS Output Tight Stability

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



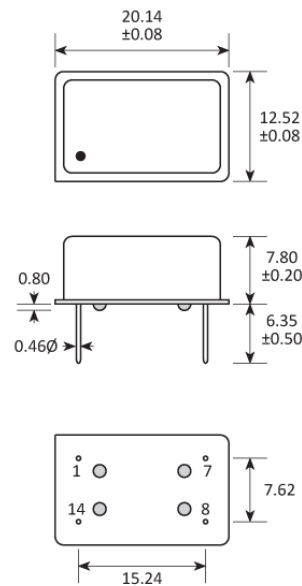
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Temperature stability	
Any	
$\pm 0.025\text{ppm max, } 0 \text{ to } +60^\circ\text{C}$	A
$\pm 0.05\text{ppm max, } -20 \text{ to } +70^\circ\text{C}$	B
$\pm 0.1\text{ppm max, } -40 \text{ to } +85^\circ\text{C}$	C
$\pm 0.2\text{ppm max, } -55 \text{ to } +85^\circ\text{C}$	E
Frequency adjustment	
Any	
$\pm 2.5\text{ppm min}$	
Control voltage 0.5~5.0V, pin 1	V5
Variable resistor 0~10k Ω , pins 1 to 7	R1
None (int accuracy $\pm 1.0\text{ppm}$)	A
None (int accuracy $\pm 0.5\text{ppm}$)	B
Package	
Any	
Through hole 14 pin DIL	
SMD option 1	
SMD option 2	

SPECIFICATIONS

Frequency range	10.0kHz ~ 54.0MHz
Frequency stability	±0.3ppm max first year ±2.5ppm max in 10 years ±0.1ppm over $V_{DD} \pm 0.5V$ ±0.01ppm over 10% change in load
Short term stability	1×10^{-10} , τ 0.1 to 30s 5×10^{-11} typ at 1s
Storage temperature range	-55 to +125 °C
Output waveform	CMOS compatible '0'=+0.4V max, '1'=4.5V 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})	+12.0V (±0.5V)
Input current	50mA max @ +25 °C 80mA max @ -20 °C
Warm up time	current 250mA max @ 25 °C : 10s to within ±0.1ppm @ 25 °C : 30s
Phase noise (typ @ 10MHz)	-90dBc/Hz @ 10Hz -120dBc/Hz @ 100Hz -130dBc/Hz @ 1kHz -135dBc/Hz @ 10kHz
Shock & vibration	5,000G, 0.3ms ½-sine 10.0 ~ 2,000Hz, 20G

PACKAGE DRAWING



PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the SCOCXOT 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.

CONSTRUCTION

Resistance weld

HANDLING & STORAGE



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



Moisture Sensitivity Level (MSL): 1

COMPLIANCE



RoHS compliant with no exemptions.