

SCOCXOW

3.3V Tight Stability OCXO with CMOS

Output

- Ultra high stability
- Compact 14-pin DIL package (SMD optional)
- 3.3V supply voltage
- CMOS output
- Very fast warmup



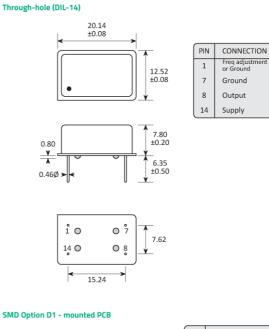
CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Temperature stability	
Any	
±0.075ppm max, 0 to +60°C	А
±0.05ppm max, 0 to +60°C	TA
±0.15ppm max, -20 to +70°C	В
±0.075ppm max, -20 to +70°C	ТВ
±0.25ppm max, -40 to +85°C	C
±0.1ppm max, -40 to +85°C	TC
Frequency adjustment	
(±2.5ppm min)	
Any	
±2.5ppm via control voltage 0.5~3.3V	V
± 2.5 ppm via variable resistor $0{\sim}10$ k Ω	R
None (int accuracy ±1.0ppm)	А
None (int accuracy ±0.5ppm)	В
Package	
Through hole 14 pin DIL	
SMD option 1	D1
SMD option 2	D2

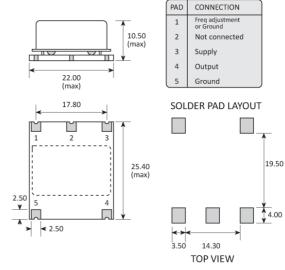


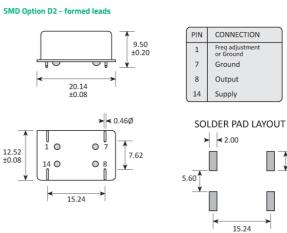
SPECIFICATIONS

PACKAGE DRAWING

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Frequency range	10.0kHz ~ 54.0MHz	1
Dimensions	20.1 x 12.5 x 8.0mm	
Frequency	±0.3ppm max first year	
stability	±2.5ppm max in 10 years	
,	±0.1ppm over V _{DD} ±0.15V	
	±0.01ppm over 10% change in load	
Short term	1x10 ⁻¹⁰ , t 0.1 to 30s	
stability	5x10 ⁻¹¹ typ at 1s	
Storage	-55 to +125°C	
temperature		
range		
Output	CMOS compatible	
waveform	'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	5ms max	
time		
Supply	+3.3V (±0.15V)	
voltage		
(V _{DD})		
Input	350mA max for up to 30s @ 25°C during start up	
current	120mA max @ +25°C	
	170mA max @ -20°C	
Warm up	120s to within ±0.1ppm @ 25°C	
time (secs)	100 10 111 0 1011	
Phase	-100dBc/Hz @ 10Hz	
noise (typ	-130dBc/Hz @ 100Hz	
@ 10MHz)	-140dBc/Hz @ 1kHz	
Shock &	-145dBc/Hz @ 10kHz	
vibration	5,000g, 0.3ms ½-sine	
VIDIAUUII	10.0 ~ 2,000Hz, 20g	







Dimensions in mm

5.00



ORDERING INFORMATION

To request a quotation for the SCOCXOW 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.

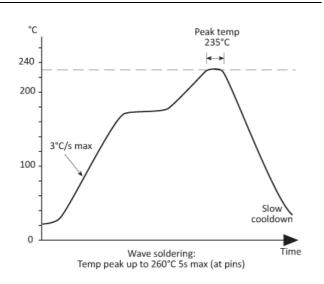
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

APPLICATIONS

This SCOCXOW 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. <u>See our statement</u>



Aul Ta Sn W Free of conflict minerals. <u>See our declaration</u>



Free of Halogens. <u>See our declaration</u>



Free of Ozone-depleting substances. <u>See our</u>

declaration