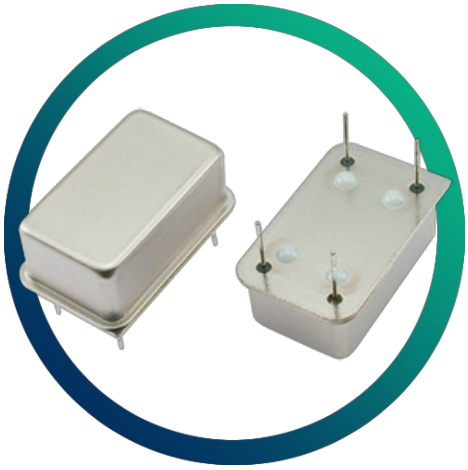
MCOCXOV

5V OCXO with Fast Warm Up and CMOS Output



- Compact 14-pin DIL package (SMD optional)
- 5.0V supply voltage
- CMOS output
- Very fast warmup
- Low power consumption

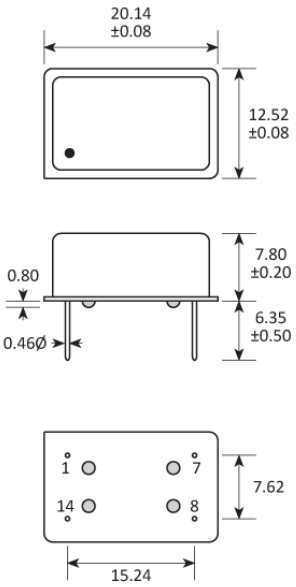
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Temperature stability	
Any	
±0.2ppm max, 0 to +60°C	A
±0.075ppm max, 0 to +60°C	TA
±0.3ppm max, -20 to +70°C	B
±0.15ppm max, -20 to +70°C	TB
±0.5ppm max, -40 to +85°C	C
±0.25ppm max, -40 to +85°C	TC
±0.7ppm max, -55 to +85°C	E
±0.3ppm max, -55 to +85°C	TE
Frequency adjustment	
Any	
±3.0ppm min, control voltage 0.5~5.0V, pin 1	V5
±3.0ppm min, variable resistor 0~10kΩ, pins 1 to 7	R1
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	±0.5ppm max first year ±3.0ppm max in 10 years ±0.1ppm over V_{DD} ±0.2V ±0.01ppm over 10% change in load
Short term stability	$5x10^{-10}$, t 0.1 to 30s $5x10^{-11}$ 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)
Test load	3pF min, 47pF max
Start up time	5ms max
Supply voltage (V_{DD})	+5.0V (±0.2V)
Input current	80mA max @ +25°C 120mA max @ -20°C
Warm up time (secs)	10s to current 250mA max @ 25°C 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



PIN	CONNECTION
1	Freq adjustment
7	Ground
8	Output
14	Supply

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the MCOCXOV 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.

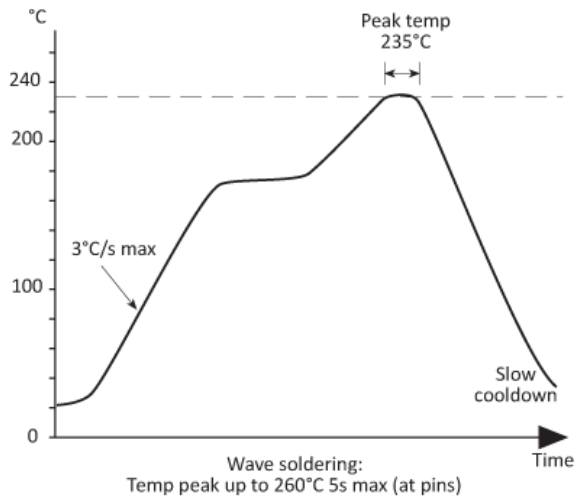
Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

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

TECHNICAL RESOURCES

DIL-14 OCXO SMD options.pdf

SOLDERING PROFILE



HANDLING & STORAGE

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

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

CONSTRUCTION

Resistance weld

MATERIAL COMPOSITION

RoHS 2 compliant with 7(a) exemption. 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

OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).
To take advantage of our highly praised service get in touch with us today.