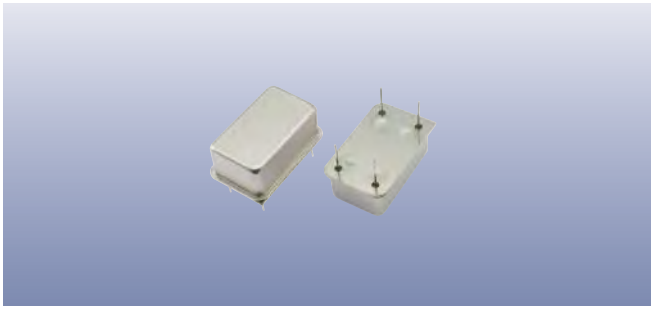
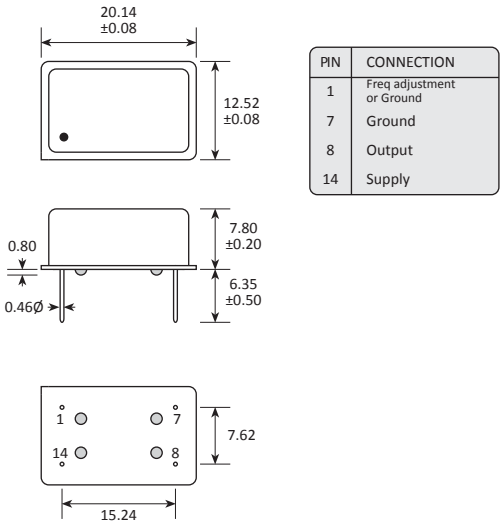
5V OCXO Sine Output Tight Stability

SCOCXOVS





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

Features

- Ultra high stability
- Compact 14-pin DIL package (SMD optional)
- 5.0V supply voltage
- Sinewave output
- Very fast warmup
- Low power consumption
- Wide temperature range available

Standard Frequencies

Frequencies in MHz	
10.00000	20.00000
12.00000	26.00000
12.80000	40.00000
14.74600	52.00000
16.00000	54.00000

Specifications

Parameters	Product SCOCXOVS	Option Codes
Frequency range:		
10.0kHz ~ 54.0MHz	■	
Frequency stability:		
±0.3ppm max first year	■	
±2.5ppm max in 10 years	■	
±0.1ppm over V_{DD} ±0.2V	■	
±10ppb max vs load ±5%	■	
Short term stability:		
$5x10^{-10}$, τ 0.1 to 30s	■	
$5x10^{-11}$ typ at 1s	■	
Temperature stability:		
±0.025ppm max, 0 to +60°C	□	A
±0.05ppm max, -20 to +70°C	□	B
±0.1ppm max, -40 to +85°C	□	C
Storage temperature range:		
-55 to +125°C	■	
Output waveform:		
Sinewave from 50Ω	■	
Harmonics < -10dBc		
Spurii < -70dBc		
Level: ≥ 4dBm / 50Ω (≤20MHz)	■	
≥ 0dBm / 50Ω (>20MHz)	■	
Frequency adjustment:		
±2.5ppm min	■	
Control voltage 0.5~5.0V, pin 1	□	V5
Variable resistor 0~10kΩ, pins 1 to 7	□	R1
None (int accuracy ±1.0ppm)	□	A
None (int accuracy ±0.5ppm)	□	B
Supply voltage (V_{DD}):		
+5.0V (±0.2V)	■	
Input current: 80mA max @ +25°C	■	
110mA max @ -20°C	■	
Warm up time (secs):		
current 250mA max @ 25°C	10	
to within ±0.1ppm @ 25°C	60	
Phase noise (typ @ 10MHz):		
-110dBc/Hz @ 10Hz	■	
-135dBc/Hz @ 100Hz	■	
-145dBc/Hz @ 1kHz	■	
-150dBc/Hz @ 10kHz	■	
Shock & vibration:		
5,000G, 0.3ms ½-sine	■	
10.0 ~ 2,000Hz, 20G	■	
Package: Through hole 14 pin DIL	■	
SMD options 1 or 2	□	specify

■ Standard. □ Optional - Please specify required code(s) when ordering

Ordering Information

Product name + option codes + frequency

eg: **SCOCXOVS-AR1 10.0MHz**

SCOCXOVS-BV5 16.384MHz

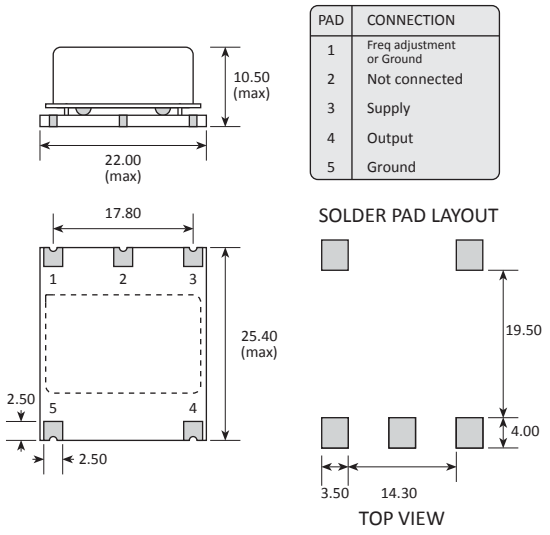
Option code X (eg SCOCXOVS/X) denotes a custom spec.

- Product is NOT designed to withstand 260°C reflow processing

Tel: **+44 1460 256 100** Fax: **+44 1460 256 101** E-mail: **sales@golledge.com** Web: **www.golledge.com**

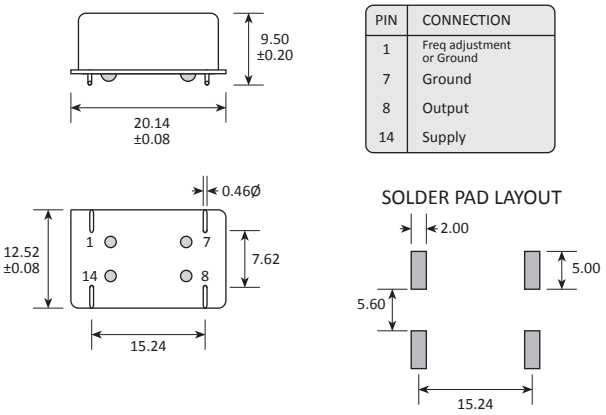
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Option D1



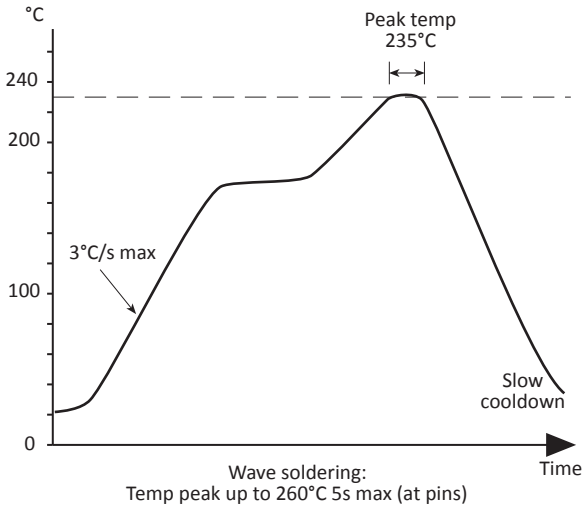
PAD	CONNECTION
1	Freq adjustment or Ground
2	Not connected
3	Supply
4	Output
5	Ground

Option D2



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

Soldering Profile



Wave soldering:
Temp peak up to 260°C 5s max (at pins)