

## Features

- ▶ Ultra high stability
- ▶ Compact 14-pin DIL package (SMD optional)
- ▶ 5.0V supply voltage
- ▶ CMOS compatible 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
14.74560	52.00000
16.00000	54.00000

## Specifications

Parameters	Product	Option Codes
	SCOCXOVT	
<b>Frequency range:</b> 10.0kHz ~ 54.0MHz	■	
<b>Frequency stability:</b> ±0.3ppm max first year ±2.5ppm max in 10 years ±0.1ppm over $V_{DD}$ ±0.2V ±0.01ppm over 10% change in load	■ ■ ■ ■	
<b>Short term stability:</b> $1 \times 10^{-10}$ , $\tau$ 0.1 to 30s $5 \times 10^{-11}$ typ at 1s	■ ■	
<b>Temperature stability:</b> ±0.025ppm max, 0 to +60°C ±0.05ppm max, -20 to +70°C ±0.1ppm max, -40 to +85°C ±0.2ppm max, -55 to +85°C	□ □ □ □	A B C E
<b>Storage temperature range:</b> -55 to +125°C	■	
<b>Output waveform:</b> CMOS compatible '0' = +0.4V max, '1' = $V_{DD}$ - 0.5V min 40:60 max Rise/fall times 7ns max (no load)	■ ■ ■ ■	
<b>Load:</b> 3pF min, 47pF max	■	
<b>Start up time:</b> 5ms max	■	
<b>Frequency adjustment:</b> ±2.5ppm min Control voltage 0.5~5.0V, pin 1 Variable resistor 0~10kΩ, pins 1 to 7 None (int accuracy ±1.0ppm) None (int accuracy ±0.5ppm)	■ □ □ □ □	V5 R1 A B
<b>Supply voltage (<math>V_{DD}</math>):</b> +5.0V (±0.2V)	■	
<b>Input current:</b> 80mA max @ +25°C 120mA max @ -20°C	■ ■	
<b>Warm up time (secs):</b> current 250mA max @ 25°C to within ±0.1ppm @ 25°C	10 60	
<b>Phase noise (typ @ 10MHz):</b> -100dBc/Hz @ 10Hz -130dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -145dBc/Hz @ 10kHz	■ ■ ■ ■	
<b>Shock &amp; vibration:</b> 5,000G, 0.3ms ½-sine 10.0 ~ 2,000Hz, 20G	■ ■	
<b>Package:</b> 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

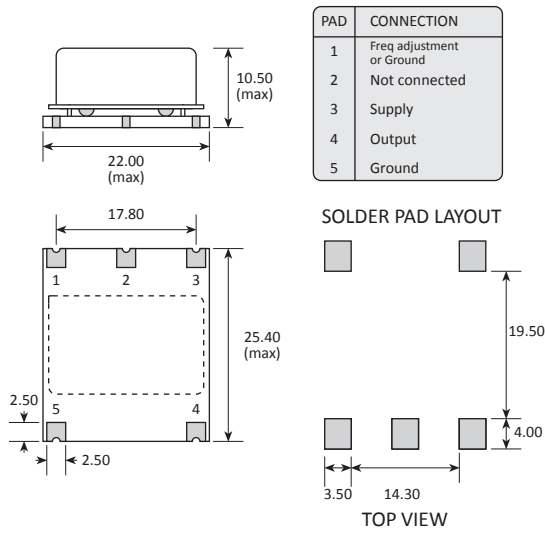
eg: **SCOCXOVT-AR1 10.0MHz**

**SCOCXOVT-BV5 16.0MHz**

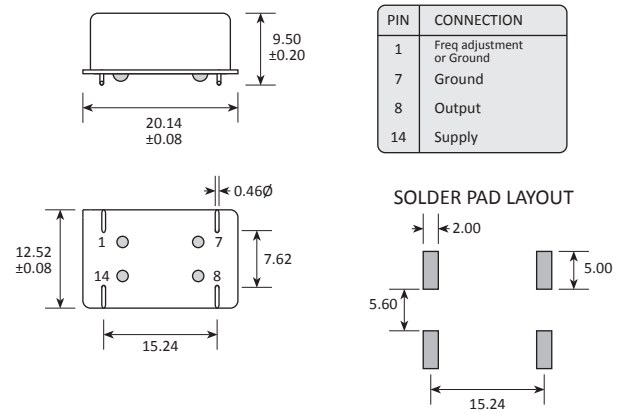
Option code X (eg SCOCXOVT/X) denotes a custom spec.

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

## Option D1



## Option D2



## Soldering Profile

