

Features:

- Frequency Range: 10 to 20 MHz
- Stabilities as low as $\pm 5 \times 10^{-8}$
- Low profile (.53 high)
- 1.5 inch sq. package
- Sinewave Output

CTS Reeves model 105 is a high stability OCXO housed in a Standard TCXO package. At only .53 high it is ideal for applications requiring high stability in small size such as rack mounted or portable applications. The 105 has Sinewave output for more design flexibility. Also there are a variety of temperature and stability options to choose from.



Electrical Specifications:

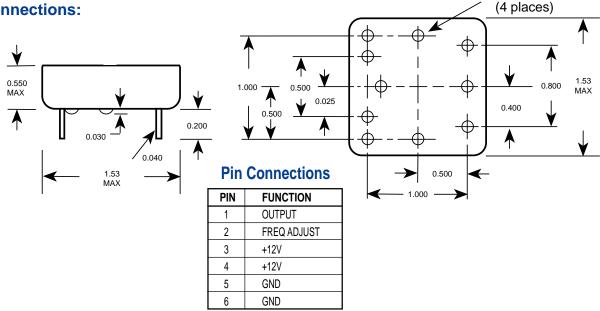
Parameter	Frequency Range (MHz)						
Supply Voltage Maximum (Vdd) Operating		<u>10.0 to 20 MHz</u> 15 Vdc 12 Vdc ±5%					
Supply Current (@ 25C) Warm-up Steady State	300 ma, Max. 120 ma, Max.						
Output (50 ohm load)	Sinewave 0 dBm Min.						
Load	50 Ω						
Harmonics	-25 dBc Max.						
Warm-up (@ 25C) Ref. to Freq. at 1 hr.	±1 x 10 ⁻⁷ / 5 Min. ±1 x 10 ⁻⁸ / 30 Min.						
	Offset	Level (dBc) Standard	Low Noise				
	10 Hz	-110	-120				
Phase Noise (1 Hz Bandwidth)	100 Hz	-130	-140				
	1 kHz	-140	-150				
	10 kHz	KHz -145 -155					
Electrical freq. adjust (Positive Slope)	Sufficient for 10 yrs Aging (Range is Option Dependent) 0 to 10 Vdc						



Model 105 Miniature OCXO

Conductive Stand-off

Outline Drawing and Pin Connections:



Mechanical Specifications:

Case:

Metal, hermetically sealed

Leads:

Nickel plated with solder coating,

Seal:

Solder Seal

Leak Test:

Leak rate less than 5x10⁻⁵ atmosphere-cc/sec of helium

Solderability:

95% solder coverage, using RMA flux 63 SN / 37 Pb solder at +245°C \pm 5°C

Temperature:

Operating: See Chart Storage: -55 to 85°C

Vibration:

10 G's rms, 20 to 500 Hz

Mechanical Shock:

100 G's 5ms pulse (3 shock/plane)

Ordering Information:

Model Type 105

Temp. Range Stability		Aging		Phase Noise		Fre	Freq. in MHz			
Temp Stability	±5 x 10 ⁻⁹	±1 x 10 ⁻⁸	±2 x 10 ⁻⁸	±5 x 10 ⁻⁸	±1 x 10 ⁻⁷	1 st Yea	ar Aging	Code	Phase Noise	Code
Temp Range Cod	e A	В	С	D	E	±0.5	±0.5 ppm		Standard	Α
0° to 50°C A	Х	Х	Х	Х	Х	±0.3	±0.3 ppm		Low Noise	В
0° to 70°C B			Х	Х	Х	±0.1	ppm	С		
-30° to 70°C C				Х	Х	±0.05	5 ppm	D		
-40° to +85°C D					Х					

Note: Not all Options are Available at all Frequencies. Consult Factory for Details.