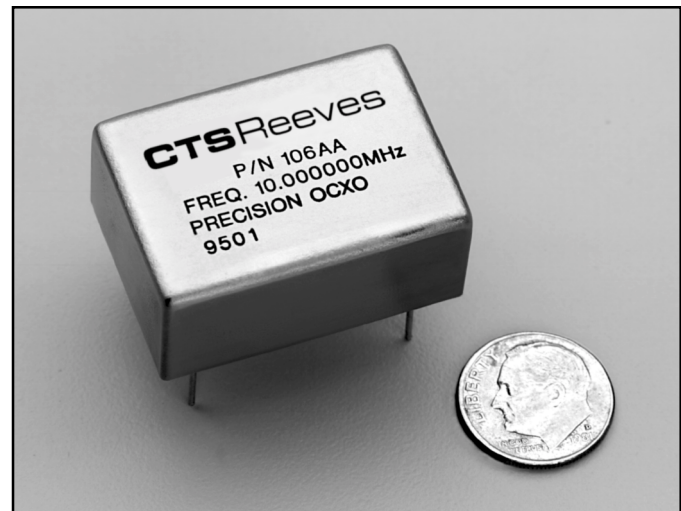


Features:

- Frequency Range: 5 to 20 MHz
- Stabilities as low as $\pm 5 \times 10^{-8}$
- Low Power
- Small Size - only 1.02" x 1.42" x 0.53"
- Squarewave Output

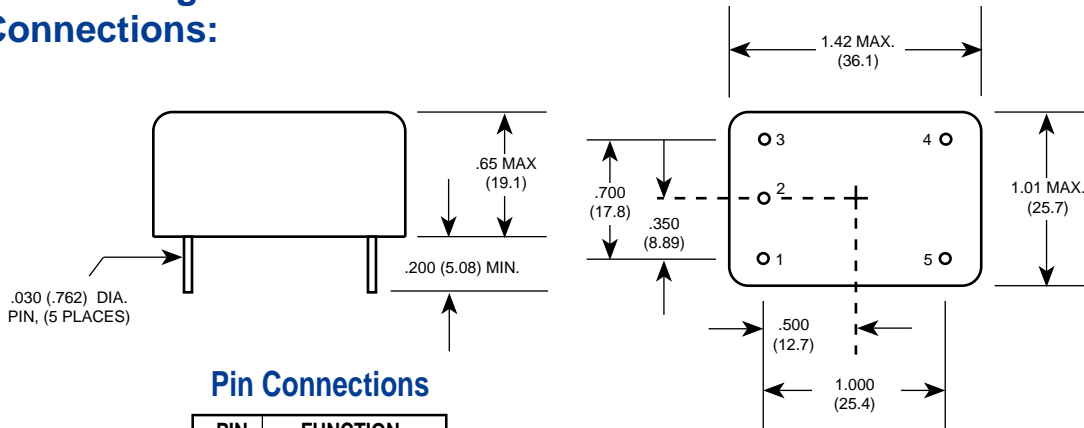
The Model 106 OCXO provides big OCXO stability with power consumption similar to a TCXO. Requiring about 200 mw of power when stabilized, it can provide temperature stabilities of less than 5×10^{-8} . The Model 106 comes with a small footprint of 1.02" x 1.42" x .53", and is perfect for portable or battery operated applications.



Electrical Specifications:

<i>Parameter</i>	<i>Frequency Range (MHz)</i>	
	5.0 to 20 MHz	
Supply Voltage (Vdd) Maximum Operating	15 Vdc 12 Vdc $\pm 5\%$ (+5 Vdc Optional)	
Supply Current (@ 0°C) Warm-up Steady State	100 ma. Max. 20 ma. Max.	
Output	TTL Compatible (Sinewave Optional)	
Load	1 to 5 TTL	
Rise & Fall Time (.4 to 2.4 Volts)	10 ns Max.	
Warm-up (@ 25°C) Ref. to Freq. at 1 hr.	$\pm 1 \times 10^{-7}$ / 5 Min. $\pm 1 \times 10^{-8}$ / 30 Min.	
Phase Noise (1 Hz Bandwidth)	Offset	Level (dBc)
	10 Hz	-100
	100 Hz	-130
	1 kHz	-140
Electrical freq. adjust (Positive slope)	Sufficient for 10 yrs Aging (Range is ± 3 ppm Typical)	
	0 to 5 Vdc	

Outline Drawing and Pin Connections:



Pin Connections

PIN	FUNCTION
1	Freq. Adjust (NC)
2	V ref
3	+12 Vdd
4	Output
5	Case/Ckt. Gnd.

Dimensions in inches (millimeters)

Mechanical Specifications:

Case:

CRS, Hot Tin Dipped

Leads:

Nickel plated with solder coating

Seal:

Solder seal

Leak Test:

Leak rate less than 5×10^{-5} atmosphere-cc/sec of helium

Solderability:

95% solder coverage, using RMA flux 63 Sn / 37 Pb solder at $+245^{\circ}\text{C} \pm 5^{\circ}\text{C}$

Temperature:

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

Vibration:

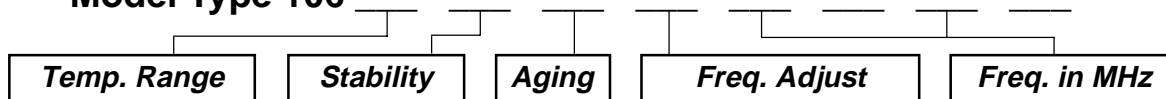
10 G's rms, 20 to 2000 Hz

Mechanical Shock:

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

Ordering Information:

Model Type 106



Temp Stability	$\pm 2 \times 10^{-8}$	$\pm 5 \times 10^{-8}$	$\pm 1 \times 10^{-7}$
Temp Range Code	C	D	E
0° to 50°C A	X	X	X
0° to 70°C B		X	X
-30° to 70°C C			X

1 st Year Aging	Code
± 0.5 ppm	A
± 0.3 ppm	B

Frequency Adjust	Code
Electrical	E
Mechanical	M

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