

Features:

- Frequency Range 1 to 100 MHz
- 6 PIN Surface Mount Package
- 3.3 V Operation
- ACMOS/TTL Compatible
- Optional Disable Feature
- Standard Frequencies

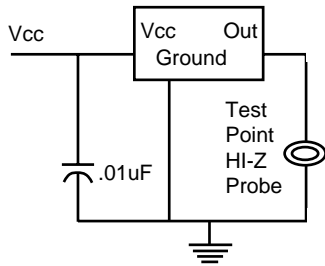


The CTS Reeves Model 324L is a small size VCXO, enclosed in a true SMT Package for use in Phase Lock Loop Applications. Its low voltage means more application flexibility. The Model 324L is available with a variety of pullability and stability options and is useful in almost any VCXO application. The optional disable feature is perfect for automated testing.

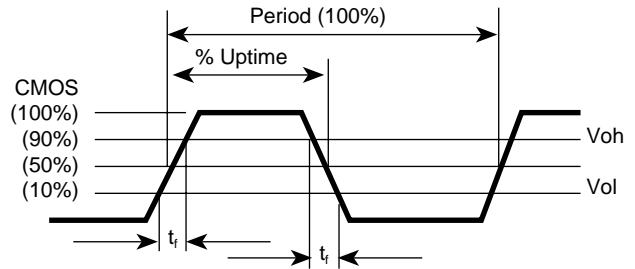
Electrical Specifications:

Parameter	Frequency Range (MHz)			
	1.0 to < 12	12 to < 25	25 to < 30	30 to < 100
Supply Voltage Maximum Operating	7 Vdc			
	3.3 V ±5%			
Current (ma.) ₁	35	25	35	75
Output Type	HCMOS			
Fanout ₁	15pf			
Rise and Fall Times ₁ 0.4 Vdc to +3.0 Vdc	< 3 ns	< 3 ns	< 5 ns	< 3 ns
Aging (ppm)	1st Year ₁	3	4	5
	10 Years ₁	12	12	15
Duty Cycle in % (50% Level)	50 ±5	50 ±10	50 ±10	50 ±10
Voltage Stability ₁ ppm Over Supply Range	5	5	5	6
Start Up Time (ms.)	10	10	8	8
Control Voltage	0 to 3 Vdc			
Input Impedance	50 K Minimum			
Linearity A, B, & C Deviation D Deviation	±10% of Best Straight Line			
	±20% of Best Straight Line			
Deviation Response at -3 dB	10 kHz Min.			
Deviation Slope	Positive			
Tristate Truth Table (Optional)	Pin 1 Status	Oscillator Status		
	Logic 1	Oscillator Enabled		
	Logic 0	Oscillator Disabled		
Tristate Control Voltage	0.8 Vdc (Max) to 2.2 Vdc (Min)			
Output Impedance	50 k ohms, Min.			

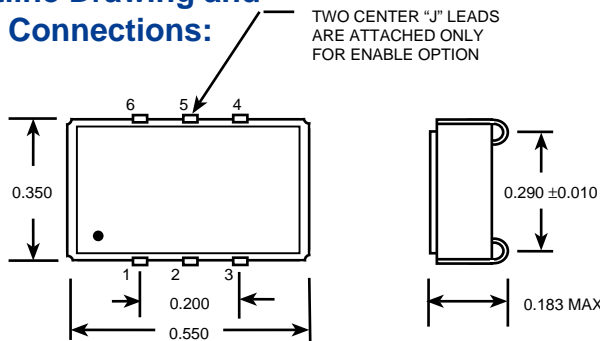
Equivalent Test Load:



Waveform Conditions:



Outline Drawing and Pin Connections:



Pin Description

PIN	FUNCTION
1	V CONTROL
2	OEH (OPTIONAL)
3	CASE/CKT GND
4	OUTPUT
5	N/C
6	Vcc

Mechanical Specifications:

- Case:** Ceramic/metal, hermetically sealed
- Leads:** Nickel plated with solder coating, or gold plated
- Seal:** Resistance weld
- Fine Leak Test:** Mass spectrometer leak rate less than 5×10^{-8} 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 125°C
- Vibration:** 20 G's rms, 20 to 2000 Hz
- Mechanical Shock:** 1000 G's 5ms pulse (3 shock/plane)

Ordering Information:

Model Type 324L - MO

Enable Options		Temperature Stability Options		Frequency Deviation Options		Frequency in MHz
A	Enable/Disable	A	± 20 ppm 0°C to $+70^{\circ}\text{C}$	A	± 50 ppm to ± 90 ppm	
S	Standard	B	± 50 ppm 0°C to $+70^{\circ}\text{C}$	B	± 75 ppm to ± 135 ppm	
		C	± 25 ppm -20°C to $+70^{\circ}\text{C}$	C	± 100 ppm to ± 180 ppm	
		D	± 25 ppm -40°C to $+85^{\circ}\text{C}$	D	± 200 ppm to ± 360 ppm	

VCXOs

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