

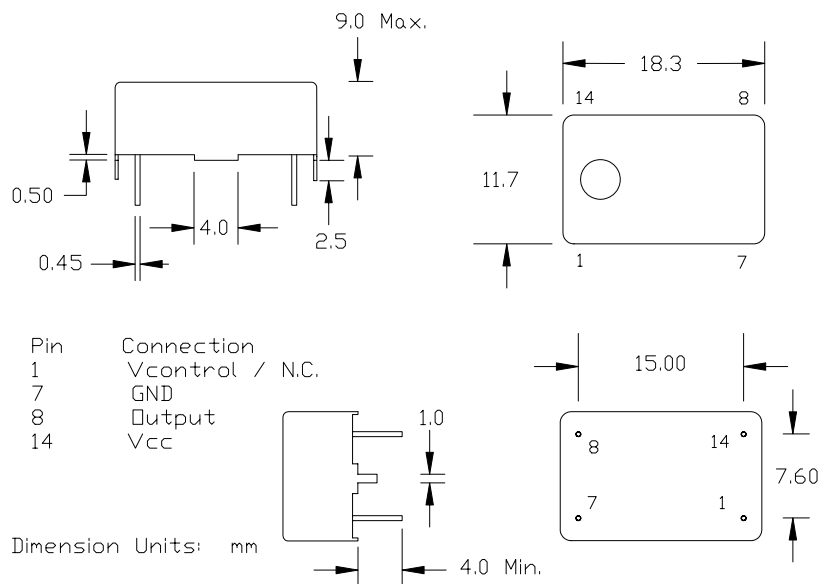


Leaded Oscillator, TCXO, TCVCXO
Metal Package, Full Size DIP

I123 / I124 / I323 / I324 Series *

	I124 / I324	I123 / I323
Frequency	2.000 MHz to 30.000 MHz	12.000 MHz to 30.000 MHz
Output Level	HC-MOS / TTL	Clipped Sine
Level	'0' = 0.1 Vcc Max., '1' = 0.9 Vcc Min.	1.0 V p-p Min.
Duty Cycle	50% ± 10%	
Rise / Fall Time	10 nS Max.	
Output Load	15 pF, Fo < 50 MHz = 10 TTL, Fo > 50 MHz = 5 LSTTL	20K Ohms / 10 pF
Frequency Stability	See Frequency Stability Table	
Frequency Stability at +25° C	± 1 ppm (I123 and I124)	
Aging	± 1 ppm / Year Max.	
Supply Voltage	See Supply Voltage Table, tolerance ±5 %	
Current	20 mA Max. *	3 mA Max.
Control Voltage (I323 / I324)	1.65 VDC ± 1.5 VDC, ±5 ppm Min. for Vcc = 3.3 VDC	2.5 VDC ± 2.0 VDC, ±5 ppm Min. for Vcc = 5.0 VDC
Slope	Positive	
Temperature		
Operating	See Operating Temperature Table	
Storage	-40° C to +85° C	
Environmental	See Appendix B for information	
RoHS	MSL = 2a., Termination = e1	

* I124 = HC-MOS TCXO, I123 = Clipped Sine TCXO, I324 = HC-MOS TCVCXO, I323 = Clipped Sine TCVCXO



Part Number Guide		Sample Part Number: I123 - 1Q3 - 20.000		
Package and Output	Operating Temperature	Frequency Stability vs. Temperature	Supply Voltage	Frequency
I123 - I124 - I323 - I324 -	7 = 0° C to +50° C	**N = ±1.0 ppm	3 = 3.3 VDC	- 20.000 MHz
	1 = 0° C to +70° C	**O = ±1.5 ppm	5 = 5.0 VDC	
	3 = -20° C to +70° C	P = ±2.0 ppm		
	4 = -30° C to +75° C	Q = ±2.5 ppm		
	2 = -40° C to +85° C	R = ±3.0 ppm		

NOTE: A 0.01 µF bypass capacitor is recommended between Vcc (pin 4) and Gnd (pin 2) to minimize power supply noise.

** Not available for all temperature ranges. *** Frequency, supply, and load related parameters.