

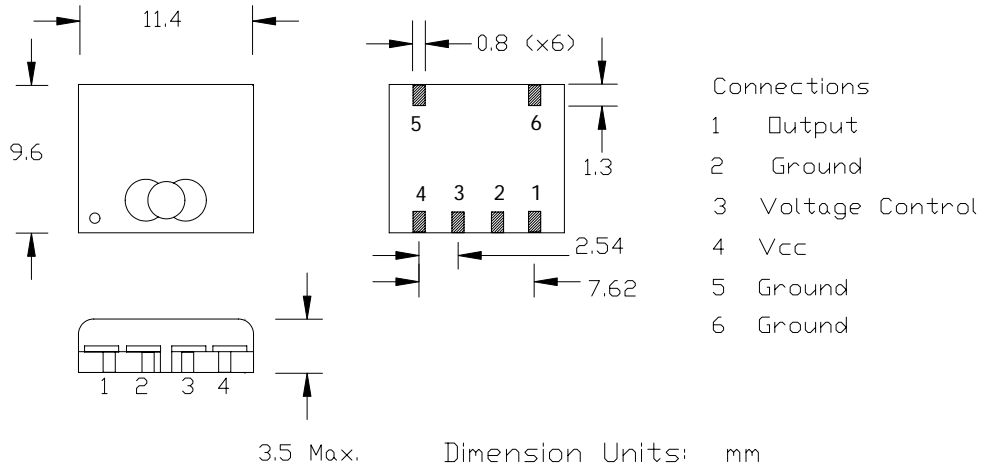


Surface Mount Oscillator, TCXO, TCVCXO  
Metal Package, 9 mm x 11 mm

I523 / I524 / I723 / I724 Series\*

	I524 / I724	I523 / I723
Frequency	1.000 MHz to 40.000 MHz	10.000 MHz to 40.000 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 (I523 and I524)	
Aging	± 1 ppm / Year Max.	
Supply Voltage	See Supply Voltage Table, tolerance ±5 %	
Current	40 mA Max. ***	3 mA Max.
Control Voltage (I723 / I724)	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	
Package Information	MSL = 2a, Termination = e1 or e4	

\* I524 = HC-MOS TCXO, I523 = Clipped Sine TCXO, I724 = HC-MOS TCVCXO, I723 = Clipped Sine TCVCXO



Part Number Guide		Sample Part Number: I523 - 1Q3 - 20.000		
Package and Output	Operating Temperature	Frequency Stability vs. Temperature	Supply Voltage	Frequency
I523 - I524 - I723 - I724 -	7 = 0° C to +50° C	**O = ±1.5 ppm	5 = 5.0 VDC	- 20.000 MHz
	1 = 0° C to +70° C	**P = ±2.0 ppm	3 = 3.3 VDC	
	3 = -20° C to +70° C	Q = ±2.5 ppm		
	2 = -40° C to +85° C	R = ±3.0 ppm		
		J = ±5.0 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.