

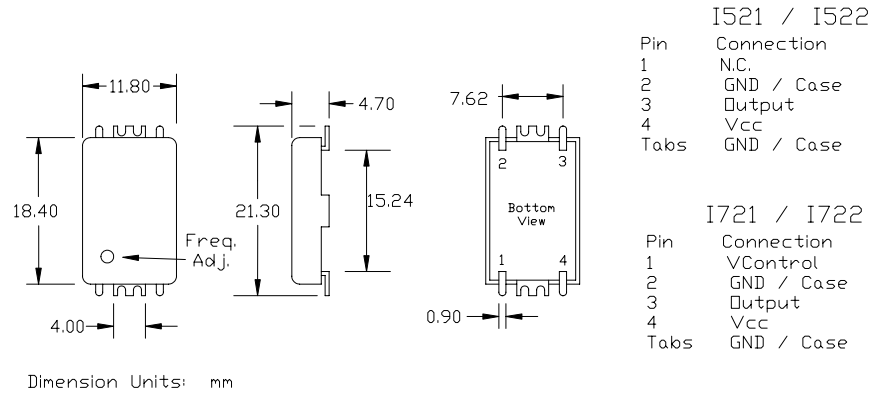


Surface Mount Oscillator, TCXO, TCVCXO
Metal Package, 11 mm x 18 mm

I521 / I522 / I721 / I722 Series *

	I522 / I722	I521 / I721
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 (I521 and I522)	
Aging	± 1 ppm / Year Max.	
Supply Voltage	See Supply Voltage Table, tolerance ±5 %	
Current	50 mA Max. **	3 mA Max.
Control Voltage (I721 / I722)	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	

* I522 = HC-MOS TCXO, I521 = Clipped Sine TCXO, I722 = HC-MOS TCVCXO, I721 = Clipped Sine TCVCXO



Part Number Guide		Sample Part Number: I521 - 1Q3 - 20.000		
Package and Output	Operating Temperature	Frequency Stability vs. Temperature	Supply Voltage	Frequency
I521 -	7 = 0° C to +50° C	*O = ±1.5 ppm	5 = 5.0 VDC	- 20.000 MHz
I522 -	1 = 0° C to +70° C	*P = ±2.0 ppm	3 = 3.3 VDC	
I721 -	3 = -20° C to +70° C	Q = ±2.5 ppm		
I722 -	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.