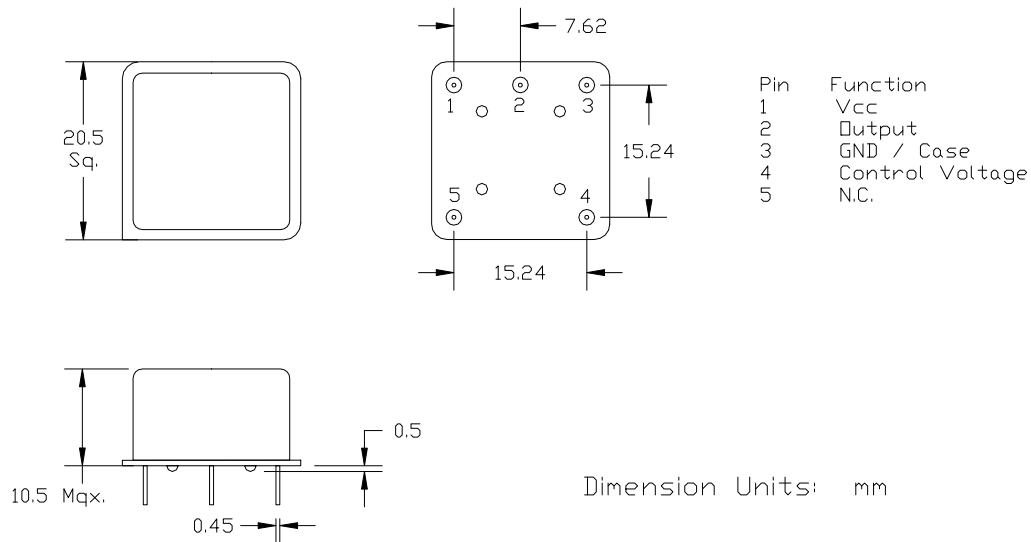




Leaded Oscillator, OCXO  
Metal Package, 20.5 mm X 20.5 mm

I411 Series

Frequency	1.000 MHz to 150.000 MHz	
Output Level	HC-MOS	Sine
Level	'0' = 10% Vcc Max., '1' = 90% Vcc Min.	+4 dBm, ± 3 dBm
Duty Cycle	Specify 50% ± 10% or ± 5% See Table	N.A.
Rise / Fall Time	10 nS Max. @ Fo < 16 MHz, 5 nS Max. @ Fo > 16 MHz	N.A.
Output Load	See Table	50 Ohms
Supply Voltage	5.0 VDC ± 5%	
Current (Warm Up)	600 mA Max. @ 5.0 VDC	
Current @ +25° C	250 mA @ 5 VDC	
Control Voltage ("V" option)	2.5 VDC ± 2.0 VDC, ± 8 ppm Min.	
Slope	Positive	
Temperature		
Operating	See Operating Temperature Table	
Storage	-40° C to +85° C	
Environmental	See Appendix B for information	
Package Information	MSL = N.A., Termination = e1	



Part Number Guide		Sample Part Number: I411 - 5151YV - 20.000 MHz					
Package	Input Voltage	Operating Temperature	Symmetry (Duty Cycle)	Output	Stability (in ppm)	Voltage Control	Frequency
I411 -	3 = 3.3 V	7 = 0° C to +50° C	5 = 45 / 55 Max.	1 = 10TTL / 15 pF HC-MOS	Y = ±0.5	V = Controlled	- 20.000 MHz
	5 = 5.0 V	1 = 0° C to +70° C	6 = 40 / 60 Max.	3 = 15 pF HC-MOS	1 = ±0.25	F = Fixed	
	9 = 12 V	6 = -10° C to +70° C		6 = 30 pF	2 = ±0.1		
		3 = -20° C to +70° C		A = Sine	3 = ±0.05 *		

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.