Features and Benefits

Wide Pulling Range (+/- 27 ppm) 5V supply; 20 mA current drain 30 MHz operating frequency

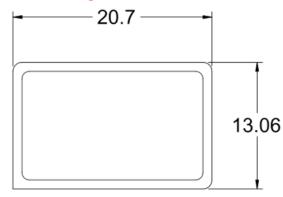
Typical Applications:

Mobile Radio; Wireless Data Microwave Communications

Description

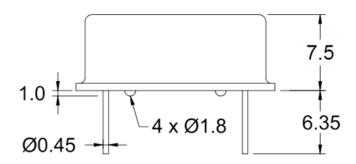
Discrete temperature compensated VCTCXO packaged in a rugged DIP package industry standard.

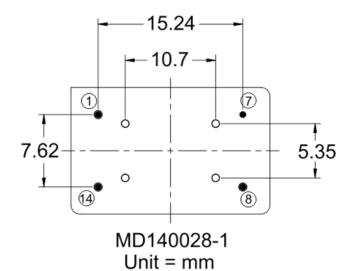
Mechanical Drawing & Pin Connections



Drawing No: MD140028-1

Pin	Function				
1	Voltage Control				
7	Ground				
8	Output				
14	+Vs				





Specifications

Oscillator Specification		Sym	Condition	Value			11-24	Mada	
				Min.	Typ.	Max.	Unit	Note	
Operational Frequency Range		F _{nom}			30.0		MHz		
HCMOS	Logic Level 1		With 15 pF typ. load	0.9*Vcc			V		
	Logic Level 0					0.1*Vcc	V		
	Rise / Fall Time					6	ns		
	Duty Cycle			40	50	60	%		
Power Sup	oply								
Voltage		V _{cc}		4.75	5.00	5.25	V		
Current Consumption									
			Steady-state, +25°C			20	mA		
Frequency	/ Control*								
Control voltage range		V _c		1.50	2.50	3.50	V	Tuning Slope Positive	
Tuning range				+/- 27			ppm		
Frequency	Stability								
Versus temperature			-20°C to +55°C, ref 25°C	-0.5		+0.5	ppm		
Tolerance at 25°C			ref 25°C at center control	-1.0		+1.0	ppm		
5% change in supply voltage				-0.1		+0.1	ppm		
5% change in load				-0.1		+0.1	ppm		
First Year Aging				-1.0		+1.0	ppm		
Environme	ental Conditions								
Operating temperature range		-20°C to +55°C							
Storage temperature range -40°C to +85°C									