VCXO7500BM-122.88MHz-A-V

7.0x5.0mm SMD 122.88 MHz VCXO

Features and Benefits

Typical 7.0 x 5.0 x 1.45 mm 6 pads ceramic SMD package. Tight symmetry (45 to 55%) available. Output frequency up to 122.88MHz. Tri-state enable/disable

Typical Applications

Set-top Box, HDTV WiMAX/WLAN XDSL/ VoIP Cable modem

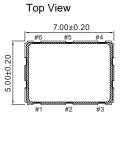
Description

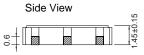
VCXO7500BM-122.88MHz-A-V offers low phase noise, all in a compact package to suit the different communication needs.

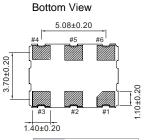
Mechanical Drawing & Pin Connections

Drawing No:

MD200028-1

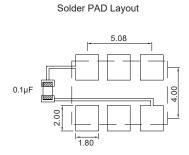






Pin#	Function					
1	Control Voltage					
2	Tri-State/NC GND					
3						
4	Output					
5	Comp.Output					
6	VDD					

Unit in mm 1mm = 0.0394 inches



To ensure optimal oscillator performance, place a by-pass capacitor of $0.1\mu F$ as close to the part as possible between Vdd and GND pads.



Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

VCXO7500BM-122.88MHz-A-V 7.0x5.0mm SMD 122.88 MHz VCXO

Specifications

Oscillator Specification	Sym	Condition	Value			11-26	N
			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}			122.88		MHz	
RF Output							
Signal Waveform			CMOS				
H-Level Voltage	V _H		2.97			V	
L- Level Voltage	V_L				0.33	V	
Transition time		Rise/Fall time			2	ns	
Power Supply							
Tri-State (Input to Pin 2)		Enable (High voltage or floating)	2.31			V	
		Disable (Low voltage or GND)			0.99	V	
Supply Voltage	V_{dd}	±5%		3.3		V	
Start-up Time					2	ms	
Current Consumption					40	mA	
Input Impedance			1000			koh m	
Frequency Adjustment Range							
Absolute Pulling Range (APR)			±50			ppm	
Control voltage	V _c		0.3		3.0	V	
Linearity				10%			
Frequency Stability							
Frequency stability vs. temperature			-50		+50	ppm	
Aging 1 st Year		at 25°C	-3		+3	ppm	
Period Jitter (Pk-Pk)					150	pS	
RMS Phase Jitter (Integrated 12kHz~20MHz) (At Integer Mode)					1	pS	
Modulation Bandwidth (BW)			10			KHz	
SSB Phase noise		100Hz		-75		dBc	
		1kHz		-105		dBc	
		10kHz		-125		dBc	
Environmental, Mechanical Conditions							
Operating temperature range	-40°C to 8						
Storage temperature range	-55°C to +	-125°C					

Transition times are measured between 10% and 90% of Vdd, with an output load of 15pF