

VCXO 1409

Features:

- Broad Voltage Control Range
- LVPECL、CMOS、HCMOS
- Mass production with well uniformity
- Custom build capability
- ISO9001:2008 & ISO 14001:2004 certificated
- ROHS compliant



Specification:

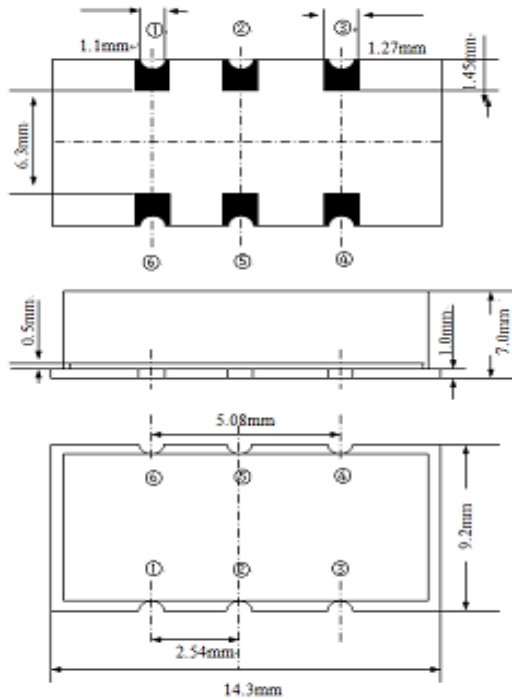
Parameter	Min	Typ.	Max	Unit	Condition	Note
Frequency Stability						
Frequency	2.048		122.88	MHz		CMOS/HCMOS
	61.44		700.0	MHz		LVPECL
Initial Frequency Accuracy	-10		+10	ppm	Vc=Vcc/2@25°C,	
	-15		+15			
Supply Variation	-3		+3	ppm	Vcc±5%, @25°C	
Load Variation	-2		+2	ppm	RL±10%, @25°C	
Aging	-3		+3	ppm		
First year						
Temperature Stability	-25		+25	ppm	-40°C~+85@25°C	
Start up time			20	ms		
Supply Voltage/Current						
Voltage Supply	3.135	3.3	3.465	V		CMOS/HCMOS
	4.75	5	5.25	V		HCMOS
Operating Current			80	mA	Max	LVPECL
			40	mA		CMOS/HCMOS
			50	mA	Standard	LVPECL
			20	mA		CMOS/HCMOS
Output Characteristics						
LVPECL	Load		50		Ω	LVPECL
			15		pF	CMOS/HCMOS
	Output Level(VOL)			1.65	V	LVPECL
				Vcc*10%		CMOS/HCMOS
	Output Level(VOH)	2.2			V	LVPECL
		Vcc*90%				CMOS/HCMOS
	Duty Cycle	45		55	%	
	Rise Time/ Fall TimeI			3	ns	
			1	ns		50MHz≤Output≤320MHz
			0.5	ns		Output Freq>320MHz



Phase Noise						
Phase Noise			-64	dBc/ Hz	@10Hz	For 100.00MHz operational frequency
			-95		@100Hz	
			-123		@1Hz	
			-140		@10Hz	
			-146		@100Hz	
			-146		@1MHz	
Voltage Control Characteristics						
Control Voltage Range	0	V _{cc} /2	V _{cc}	V		
Frequency tuning range			-90	ppm	V _c =0V	For 100.00MHz operational frequency
	-10		+10	ppm	V _c =V _{cc} /2	
	+60		+150	ppm	V _c = V _{cc}	
Slope	Positive					
Linearity	-10		+10	%		
Input Impedance	100			MΩ		
Modulation bandwidth	15			KHz		

Environmental, Mechanical Conditions	
Operating temperature range	-40℃~+85℃
Storage temperature range	-55℃~+125℃
Drop Test	The test shall be carried out as the provisions of the IEC60028-2-32 test Ed.
Bumping Test	Device are bumped to three mutually perpendicular axes at peak acceleration of 400m/s ² , each 4000±10 times , 6ms pulse duration time.
Vibration test	The test shall be carried out as the provisions of the IEC60028-2-6 test Ec. Frequency Range:10Hz ~ 55Hz,Peak value:0.75mm, Device are bumped to three mutually perpendicular axes for 30 min each.
Mechanical Shock	The test shall be carried out as the provisions of the IEC60028-2-27 test Ea. Peak Acceleration 1000m/s ² ,6mS duration, 1/2 sine wave, 3 shocks each direction along 3 mutually perpendicular planes.
Thermal shock	0.5h@-40℃ , 0.5h@+85℃ , Note: the changing time < 30 seconds, cycling for 6times
Solderability	260℃ for 5s
Solder Resistance	Test temperature 260℃,>10s,4cycles.
Pull	10N
Push	2N

Dimensions:



Pin Function:

Pin No.	Pin Function
1	Vc
2	OE/NC
3	GND
4	OUTPUT
5	COUPTUT/NC
6	Vcc

Note: the length, width, height are all maximum.

How to Order

