

北京瑞安嘉业科技发展有限公司 EALGIANT BEIJING REALGIANT TECHNOLOGY CO., LTD

TCXO DIP14

Features:

- Low Power Consumption
- High Stability
- Mass production with good uniformity
- ISO9001:2008 & ISO 14001:2004 certificated
- ROHS compliant
- Custom build capability





Parameter		Min	Тур.	Max	Unit	Condition	Note
			Fre	equency	Stability	y	
Frequency		5.0		100.0	MHz		
Initial Frequency Accuracy		-0.5ppm /-1ppm		+0.5pp m/+1pp	ppm	Vc=1.65V/ @25℃,after 15mins power on ref to nominal frequency.	
Supply Variation		-0.2		+0.2	ppm	Vcc±5%, @25℃	
Load Variation		-0.2		+0.2	ppm	CL±5%, @25℃	
Aging	per day	-1		+1	ppm	Aging after 30 days of operation	For 10.000MHz operational frequency
	10 years	-5		+5	ppm		
Temperature Stability		-0.28/-1		+0.28/+1	ppm	-40°C∼+85°C @ 25°C	
			Supp	oly Voltag	je/Curre	ent	
Voltage Sup	Voltage Supply		3.3	3.465	V	V	
Total go Cupp.y		4.75	5	5.25	V		
Operating	Operating Current			10	mA		
Operating				30	mA		
			Out	out Chara	cteristi	cs	
	Load		15	30	pF		
	Output Level(VOL)			10%Vcc	V		
CMOS	Output Level(VOH)	90%Vcc			V		
	Duty Cycle	45		55	%		
	Rise Time/ Fall Time			5	ns		
Sine-Wave	Load		50		Ω		
	Level	5	7	9	dBm		
	Harmonics Level		30		dBc		_

^{*} Above specification subject to change without prior notice, please consult our sales @ www.crystal-bj.com



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Spurious		70		dBc			
Phase Noise							
		-85		dBc/H z	@10Hz		
		-110			@100Hz		
Phase Noise		-130			@1kHz	For 10.000MHz	
Priase Noise		-145			@10KHz	operational frequency	
		-145			@100KHz		
		-148			@1MHz		
	Voltage Control Characteristics						
Control Voltage Range	0	1.65	3.3	V			
	0	2.5	5				
Fragues ou tuning range	-9		-15	ppm	Vc=0V	For 10.000MHz	
Frequency tuning range	-1		+1	ppm	Vc=1.65V	operational	
	+9		+15	ppm	Vc=3.3V	frequency	
Slope	Positive						
Linearity	-10		+10	%			
Input Impedance	100			ΚΩ			
Mechanical specification & Package							
Package Size							
Pin Connector Size	Refer to the below drawing						
Pin Connector Definition							
ROHS	RoHS compliant (network exempted)						

Environmental, Mechanical Conditions					
Operating temp range	-40℃~+85℃				
Operable temp range	-40℃~+85℃				
Storage temp range	-50℃~+105℃				
D T /	The test shall be carried out as the provisions of the IEC60028-2-32 test Ed.				
Drop Test	10cm height, 3 times on hard board with thickness of 3cm				
Bumping Test	Device are bumped to three mutually perpendicular axes at peak acceleration of 400m/s², each 4000±10 times, 6ms pulse duration time.				
Vibration test	Frequency range: 1Hz-4Hz-100Hz-200Hz Acceleration: 0.0001g²/Hz-0.01g²/Hz-0.01g²/Hz-0.001g²/Hz Grms=1.15g Sweep time: 30 minutes (perpendicular axes each sweep time)				
Mechanical Shock	100g, 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 100 times				

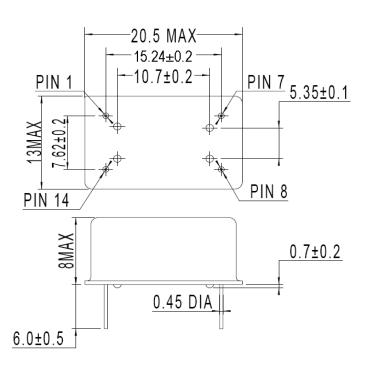
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Dimensions:

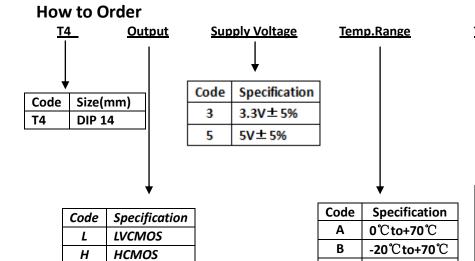
Unit: mm



Pin Function

Pin No.	Pin Function
1	VC
7	GROUND
8	OUTPUT
14	VCC

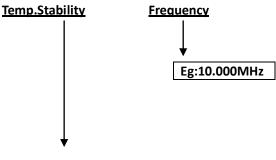
Code Specification



Clipped Sine

Sine Wave

C



Code	Specification	Operable Temp.
		Range Available
16	±1X10 ⁻⁶	A~C
57	±5X10 ⁻⁷	A~C
37	±2.8X10 ⁻⁷	A~C

-40°C to+85°C

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