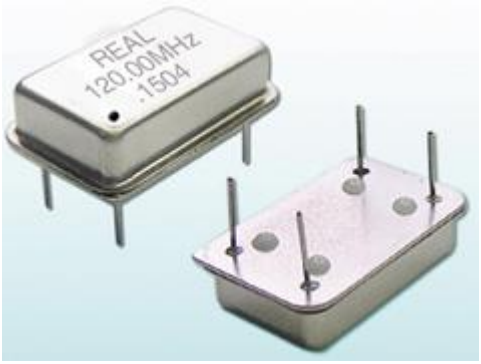
北京瑞安嘉业科技发展有限公司

BEIJING REALGIANT TECHNOLOGY CO., LTD

VCXO DIP14

Features:

- Low Power Consumption
- Broad Voltage Control Range
- Mass production with well uniformity
- Custom build capability
- 14-stitch full-size
- Wide frequency range
- Lead-free green product



Specification:

Parameter		Min	Typ.	Max	Unit	Condition	Note
Frequency Stability							
Frequency		2.048		122.88	MHz		
Initial Frequency Accuracy		-10		+10	ppm	Vc=Vcc/2@25℃,	
Supply Variation		-3		+3	ppm	Vcc±5， @25℃	
Load Variation		-2		+2	ppm	RL±10， @25℃	
Aging	First year	-3		+3	ppm		
Temperature Stability		-25		+25	ppm	-40℃～+85@25℃	
Start up time				20	ms		
Supply Voltage/Current							
Voltage Supply		3.135	3.3	3.465	V		
		4.75	5	5.25	V		
Operating Current				40	mA	Max	
				20	mA	Standard	
Output Characteristics							
LVCMOS	Load		15		pF		
	Output Level(VOL)			0.3	V		Supply Voltage3.3V
				0.5	V		Supply Voltage 5V
	Output Level(VOH)	3.0			V		Supply Voltage3.3V
		4.5			V		Supply Voltage 5V
	Duty Cycle	45		55	%		
	Rise Time/ Fall Timel			5	ns		Output Freq≤50MHz
				1	ns		Output Freq≤50MHz

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

Phase Noise						
Phase Noise			-64	dBc/ Hz	@10Hz	
			-95		@100Hz	
			-123		@1Hz	
			-140		@10Hz	
			-146		@100Hz	
			-146		@1MHz	
Voltage Control Characteristics						
Control Voltage Range	0	1.65	3.3	V		Supply Voltage3.3V
	0.5	2.5	4.5	V		Supply Voltage5V
Frequency tuning range	-150		-60	ppm	Vc=0V/0.5V	
	-10		+10	ppm	Vc=Vcc/2	
	+60		+150	ppm	Vc=3.3V/4.5V	
Slope						
Linearity	-10		+10	%		
Input Impedance	1			MΩ		

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/s², 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/s² ,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

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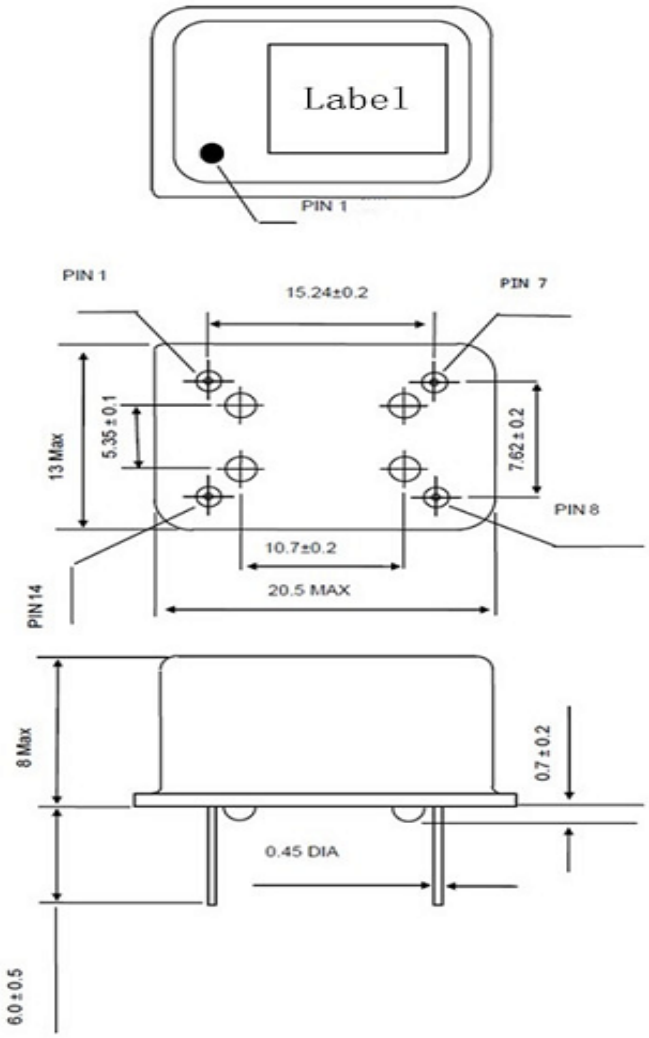
Dimensions:



Pin Function:

Pin No.	Pin Function
1	Vc
7	GND
8	OUTPUT
14	Vcc

V4 | **Output** | **Supply Voltage** | **Temperature Range** | **OE** | **Voltage Control Rang** | **Frequency**

Size(mm)
DIP14

Code	Specification
3	3.3V±5%
5	5V±5%

Eg:61.44MHz

Code	Specification
100	⩾100ppm
120	⩾120ppm

Code	Specification
P	LVPECL
H	HCMOS
L	LVCMOS

Code	Specification
A	0℃to+70℃
B	-20℃to+70℃
C	-40℃to+85℃

Code	Specification
H	Logic"1"
L	Logic"0"
N	NC

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