

OCXO DIP14

Features:

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



Specification:

Parameter		Min	Typ.	Max	Unit	Condition	Note
Frequency Stability							
Frequency		5.0		100.0	MHz		
Initial Frequency Accuracy		-200		+200	ppb	Vc=1.65V/ @25°C, after 15mins power on ref to nominal frequency.	
Supply Variation		-5		+5	ppb	Vs±5%, @25°C	
Load Variation		-5		+5	ppb	CL±5%, @25°C	
Aging	per day	-1		+1	ppb	Aging after 30 days of operation	For 10.000MHz operational frequency
	first year	-150		+150	ppb		
	10 years	-1.2		+1.2	ppm		
Temperature Stability		-20		+20	ppb	-20°C ~ +70°C @ 25°C	
Short Tem Stability (in still air)				0.05	ppb/s	after power on 1hour@25°C	
Warm -up time				5	min	Vc=1.65V, @+25°C, Within ±10PPb of final frequency with reference after 1 hour on	
Freq Retrace Characteristics		-10		+10	ppb	Power on 24hs, then off 24hs, switch on again, after 0.5h , measure freq.vs. frequency prior to power off.	
Supply Voltage/Current							
Voltage Supply		3.135	3.3	3.465	V		
Operating Current				800	mA	during warm up	
				200	mA	at steady state	
Output Characteristics							
CMOS	Load		15		pF		
	Output Level(VOL)			0.4	V		

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



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

	Output Level(VOH)	2.4			V		
	Duty Cycle	45		55	%		
	Rise Time/ Fall Time			5	ns		
Sine-Wave	Load		50		Ω		
	Level	5	7	9	dBm		
	Harmonics Level			-40	dBc		
Spurious				-70	dBc		
Phase Noise							
Phase Noise				-85	dBc/H z	@1Hz	For 19.200MHz operational frequency
				-115		@10Hz	
				-135		@100Hz	
				-148		@1KHz	
				-152		@10KHz	
				-155		@100KHz	
Voltage Control Characteristics							
Control Voltage Range		0	1.65	3.3	V		
Frequency tuning range		-3.0		-1.5	ppm	Vc=0V	For 19.200MHz operational frequency
		-200		+200	ppm	Vc=1.65V	
		+1.5		+3.0	ppm	Vc=3.3V	
Slope		Positive					
Linearity		-10		+10	%		
Input Impedance		100			KΩ		
Mechanical specification & Package							
Package Size		Refer to the below drawing					
Pin Connector Size							
Pin Connector Definition							
ROHS		RoHS compliant（network exempted）					

Environmental, Mechanical Conditions

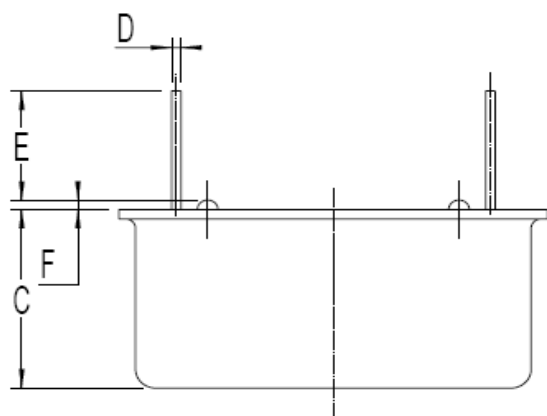
Operating temp range	-40℃~+85℃
Operable temp range	-40℃~+85℃
Storage temp range	-50℃~+105℃
Drop Test	The test shall be carried out as the provisions of the IEC60028-2-32 test Ed. 10cm height, 3 times on hard board with thickness of 3cm

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

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	Frequency range: 1Hz-4Hz-100Hz-200Hz Acceleration: 0.0001g ² /Hz-0.01g ² /Hz-0.01g ² /Hz-0.001g ² /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

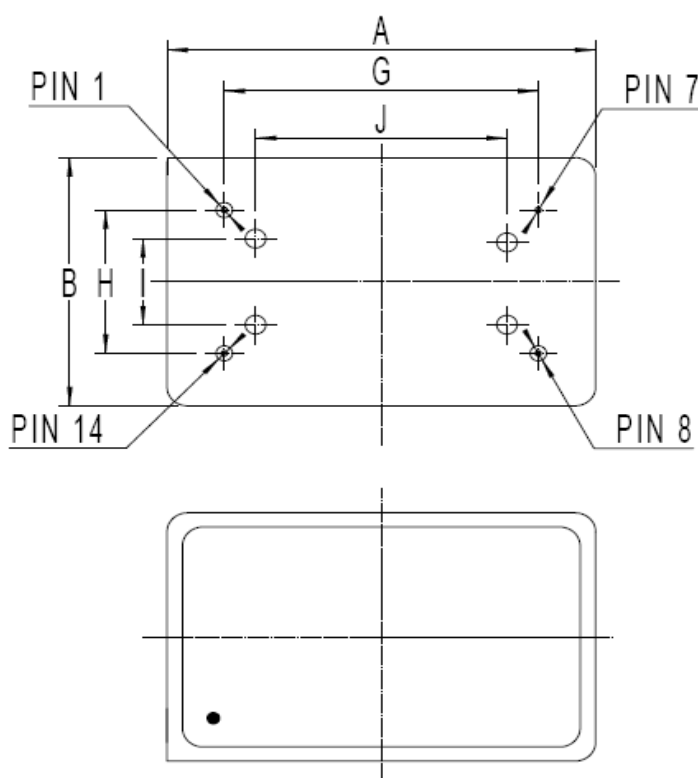
Dimensions:

Unit: mm



Pin Function:

Pin No.	Pin Function
1	VC
7	GND
8	Output
14	VS



	Dimension (mm)	
Symbol	Min	Max
A		20.5
B		12.9
C		10.3
D	0.4	0.5
E	5.0	6.0
F	0.4	0.8
G	15..0	15.4
H	7.4	7.8
I	5.35 nominal	
J	10.7nominal	

How to Order

OC 14

Code	Size (mm)
OC 14	DIP14

Output

Code	Specification
L	LVC MOS
H	HCMOS
S	Sine Wave

Supply Voltage

Code	Specification
3	3.3V ± 5%
5	5V ± 5%
2	12V ± 5%

Temperature Range

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

Temperature stability

Code	Specification	Temp. range code Available
27	$\pm 2 \times 10^{-7}$	A~C
17	$\pm 1 \times 10^{-7}$	A~C
58	$\pm 5 \times 10^{-8}$	A~C
28	$\pm 2 \times 10^{-8}$	A~C
18	$\pm 1 \times 10^{-8}$	A~B
59	$\pm 5 \times 10^{-9}$	A~B

Frequency

Eg: 26.000MHz

P/N Example: OC14L3C28-26.000MHz