北京瑞安嘉业科技发展有限公司

BEIJING REALGIANT TECHNOLOGY CO., LTD

High Frequency Low Phase Noise OCXO 2525

Features:

- High reliability
- Excellent phase noise
- 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		10.0		100.0	MHz		
Initial Frequency Accuracy		-200		+200	ppb	Vc=4.5V/ @25℃,after 15mins power on ref to nominal frequency.	
Supply Variation		-10		+10	ppb	Vs±5%， @25℃	
Load Variation		-10		+10	ppb	CL±5%， @25℃	
Aging	per day	-10		+10	ppb	Aging after 30 days of operation	For 100.0MHz operational frequency
	first year	-500		+500	ppb		
	10 years				ppm		
Temperature Stability		-100		+100	ppb	-20℃～+70℃ @ 25℃	
Short Tem Stability (in still air)				0.05	ppb/s	after power on 1hour@25℃	
Warm -up time				5	min	Vc=2.0V,@+25℃,Within ±10PPb of final frequency with reference after 1 hour on	
Supply Voltage/Current							
Voltage Supply		11.4	12	12.6	V		
Operating Current				400	mA	during warm up	
				150	mA	at steady state	
Output Characteristics							
Sine-Wave	Load		50		Ω		
	Level	7	9	11	dBm		
	Harmonics Level			-30	dBc		

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

Spurious			-70	dBc		
Reference Voltage	8.5	9.0	9.5	V		
Phase Noise						
Phase Noise			-95	dBc/Hz	@1Hz	For 100.0MHz operational frequency
			-125		@100Hz	
			-155		@1KHz	
			-170		@10KHz	
			-175		@100KHz	
Voltage Control Characteristics						
Control Voltage Range	0	4.5	9.0	V		
Frequency tuning range	-3.0		-1.5	ppm	Vc=0V	For 100MHz operational frequency
	-200		+200	ppm	Vc=4.5	
	+1.5		+3.0	ppm	Vc=9.0	
Slope	Positive					
Linearity	-20		+20	%		
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	-20℃~+70℃
Operable temp range	-40℃~+85℃
Storage temp range	-55℃~+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
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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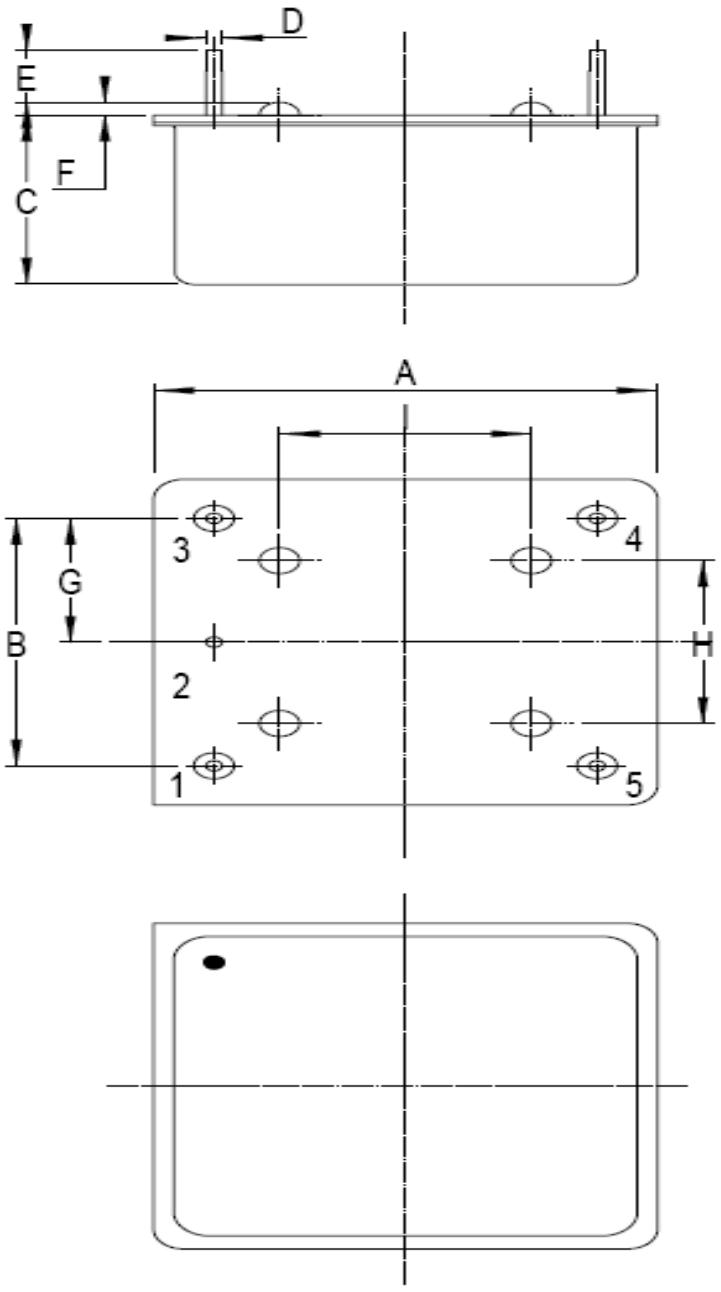
Dimensions:

Unit: mm



Pin Function:

Pin No.	Pin Function
1	Output
2	GND
3	VC
4	NC
5	VS

	Dimension (mm)	
Symbol	Min	Max
A		25.6
B	18.80	19.20
C		12.2
D	0.70	0.90
E	4.6	6.2
F	0.4	0.7
G	9.4	9.6
H	11.5nominal	
I	11.5nominal	

How to Order

LNOC5

Code	Size (mm)
OC 25	25.6X25.6X12.2

Output

Code	Specification
S	Sine Wave

Supply Voltage

Code	Specification
5	5V±5%
2	12V±5%

Temperature Range

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

Temperature stability

Code	Specification	Temp. range code Available
37	$\pm 3X10^{-7}$	A~C
27	$\pm 2X10^{-7}$	A~C
17	$\pm 1X10^{-7}$	A~C
58	$\pm 5X10^{-8}$	A~C

Frequency

Eg:10.000MHz

P/N Example: LNOC25S2C58-100.000MHz