



Approved by:

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SPECIFICATION

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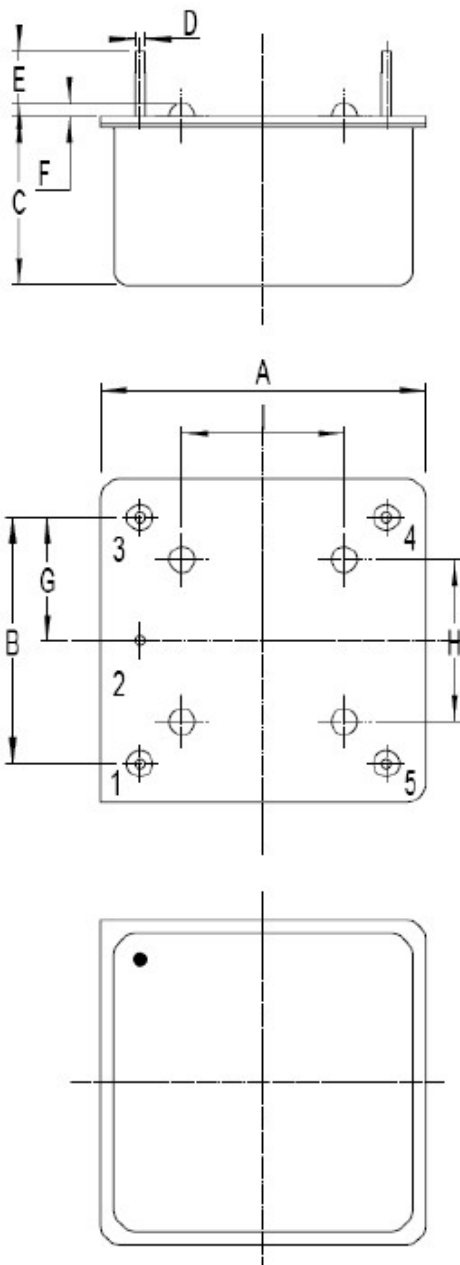
Parameter		Min	Typ.	Max	Unit	Condition	Note
Frequency Stability							
Frequency			100.00		MHz		
Initial Frequency Accuracy		-100		+100	ppb	V _c =2.0V,@25°C after 15mins power on ref to nominal frequency.	
Reflow Shift		-400		+400	ppb	After 48 hour recovery @25°C	
Supply Variation		-5.0		+5.0	ppb	V _s ±5%@25°C	
Load Variation		-5.0		+5.0	ppb	CL±10%@25°C	
Aging	per day	-2.0		+2.0	ppb	Aging after 30 days of operation	
	The first year	-100		+100	ppb		
	10 years	-0.5		+0.5	ppm		
Temperature Stability		-50.0		+50.0	ppb	-40°C~+85°C refer to 25°C	
Short Term Stability (in still air)				0.05	ppb/s	After power on 1hour,@25°C	
Warm -up time				3.0	min	Within ±100 ppb of final frequency with reference after 1 hour on @+25°C	
Supply Voltage/Current							
Voltage Supply		4.75	5.0	5.25	V		
Operating Current				700	mA	during warm up	
				240	mA	at steady state,@25°C	
Output Characteristics							
Sine-Wave	Load		50		Ω		
	Output Level	5		9	dBm		
	Harmonic-Level			-30	dBc		
Spurious				-80	dBc		
Reference Voltage		3.8	4.0	4.2	V		

Phase Noise						
Phase Noise			-80	dBc/Hz	@1Hz	
			-90		@10Hz	
			-120		@100Hz	
			-155		@1KHz	
			-165		@10KHz	
			-165		@100KHz	
Voltage Control Characteristics						
Control Voltage Range	0.0	2.0	4.0	V		
Frequency tuning range			-1.5	ppm	Vc=0.0V	
	-100		+100	ppb	Vc=2.0V	
	+1.0			ppm	Vc=4.0V	
Slope	Positive					
Linearity			10	%		
Input Impedance	100			KΩ		
Mechanical specification & Package						
Package Size	Refer to the below drawing					
Pin Connector Size						
Pin Connector Definition						
ROHS	RoHS compliant					

Note: The final specification should be subject to our final confirmation.

Environmental, Mechanical Conditions	
Operating temperature range	-40°C~+85°C
Storage temperature range	-55°C~+105°C
Moisture sensitivity level	MSL1
ESD	HBM.2kV
Drop Test	The test shall be carried out as the provisions of the IEC60068-2-32 test Ed. 10cm height, 3 times on hard board with thickness of 3cm
Vibration test	The test shall be carried out as the provisions of the IEC60068-2-06 test Fc. Frequency range:10Hz~500Hz Acceleration:10g Displacement:0.75mm@10Hz Sweep time:1.5 hours total (sweep for 30 minutes in each direction)
Mechanical Shock	The test shall be carried out as the provisions of the IEC60068-2-27 test Ed. 50g, 11ms duration, 1/2 sine wave, 3 shocks each direction along 3 mutually perpendicular planes.
Thermal shock	0.5h@-40°C, 0.5h@+85°C, Note: The changing time < 30 seconds, cycling for 100 times.

Dimensions (unit: mm):



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

Package Size:

Symbol	Dimension (mm)	
	Min	Max
A		25.6
B	18.8	19.2
C		12.5
D	0.7	0.9
E	4.6	6.2
F	0.4	0.7
G	9.4	9.6
H	11.5 nominal	
I	11.5 nominal	