



Approved by:

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SPECIFICATION

P/N: 5X1000000C01MBL

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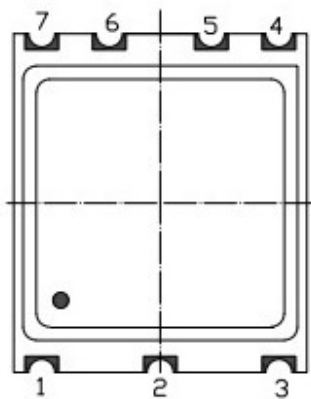
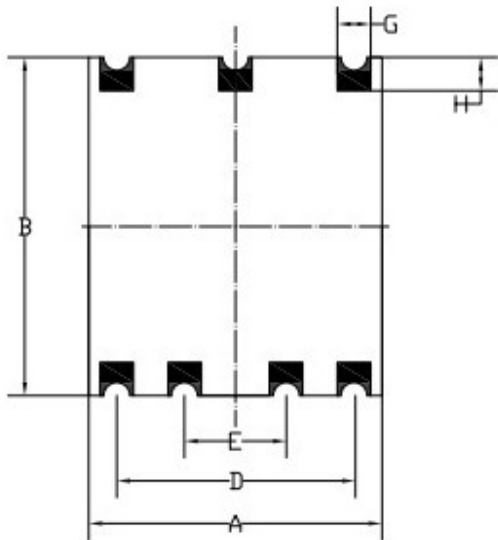
Parameter		Min	Typ.	Max	Unit	Condition	Note
Frequency Stability							
Frequency			10.00		MHz		
Initial Frequency Accuracy		-200		+200	ppb	@25°C after 15mins power on ref to nominal frequency.	
Reflow Shift		-400		+400	ppb	After 48 hour recovery @25°C	
Supply Variation		-0.5		+0.5	ppb	Vs±5%@25°C	
Load Variation		-0.5		+0.5	ppb	CL±5%@25°C	
Aging	per day	-0.3		+0.3	ppb	Aging after 30 days of operation	
	The first year	-50		+50	ppb		
	10 years	-300		+300	ppb		
Temperature Stability		-5.0		+5.0	ppb	-40°C~+85°C refer to 25°C	
Short Term Stability (in still air)				0.01	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		3.135	3.3	3.465	V		
Operating Current				1000	mA	during warm up	
				400	mA	at steady state, @25°C	
Output Characteristics							
LVCMOS	Load		15		pF		
	Output Level (VOL)			0.4	V		
	Output Level (VOH)	2.4	2.8		V		
	Duty Cycle	45		55	%		
	Rise Time/ Fall Time			5.0	ns		

Phase Noise						
Phase Noise			-90	dBc/Hz	@1Hz	
			-120		@10Hz	
			-140		@100Hz	
			-150		@1KHz	
			-155		@10KHz	
			-155		@100KHz	
Voltage Control Characteristics						
Control Voltage Range				V		
Frequency tuning range				ppm	Vc=0.0V	
				ppb	Vc=2.0V	
				ppm	Vc=4.0V	
Slope	Positive					
Linearity				%		
Input Impedance				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):

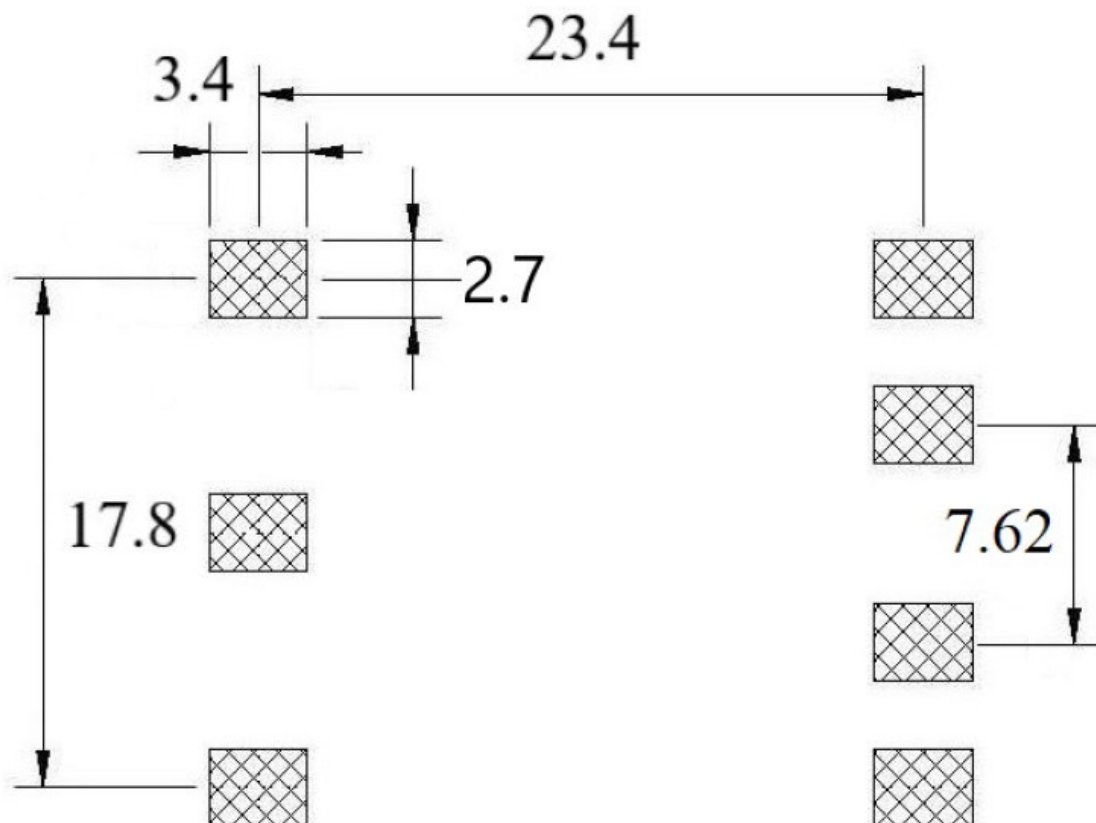


Pin Function:

Pin	Pin Function
1	NC
2	NC
3	VS
4	OUTPUT
5	NC
6	NC
7	GND

	Size (mm)	
Symbol	Min	Max
A	21.8	22.2
B	25.2	25.6
C		12.0
D	17.7	17.9
E	7.5	7.7
G	2.4	2.6
H	2.4	2.6

Recommend Pad (unit: mm)



Reflow Soldering Curve (RoHS)

Total Time: 200 sec. Max.
Solder Melting Point :220 °C

