# **PRODUCT SPECIFICATION**

# QUARTZ CRYSTAL OSCILLATOR

# FREQUENCY COMPONENTS

P R O D U C T T Y P E NOMINAL FREQUENCY PART NO REVISION

: MUËHÎ ÓËÎ Î T
: <u>Î</u> ÎMHZ
: TUËHÎ ÓËÎ Î T
: C *J +



Parameter 参数	MIN	TYPICAL	MAX	Unit
Holding 封装型号		SMD7050 OSC	;	
Frequency 中心频率		66.000		MHZ
Operation Voltage 工作电压	+3.0	+3.3	+3.6	V
TRI-STATE 三态		Yes		
Frequency Tolerance @25±2 ℃调整频差	-50		+50	PPM
Operation temperature range 工作温度范围	-40		+85	°C
store temperature range 存储温度范围	-40		+85	$^{\circ}\!$
Input Current (on loud) 工作输入电流			35	mA
Start time for oscillator 起振时间			6	ms
Output Load 输出负载	10 TTL / 15PF HCMOS			
Duty Cycle 占空比	45%	50%	55%	
Rise Time (Tr) 上升时间			10	ns
Fall Time (Tf) 下降时间			10	ns
Output Low Voltage Level 输出低电平			0.4V (TTL) 10%VCC (HCMOS)	
Output High Voltage Level 输出高电平	2.4V (TTL) 90%VCC (HCMOS)			



Test Circuit 测试电路图





### UNIT: mm







Pin No	Descriptions	Symbol
1	Out state control	INHB
2	Ground	Vss
3	Output	Qout
4	Power supply	V <sub>DD</sub>

INHB	"H" or OPEN	"L"(tri-state)
Qout	Oscillating	High Impedance



4、Taping 编带







### Reel 编带卷轮

----Reels 卷轮

Reel outer	Hub	Appropriate	Reel inner	Reel outer	Packing
diameter A	diameter N	tape width	width W1	width W2	quantity
卷轮外径	轮轴直径	固有带宽	槽轮内宽	槽轮外宽	封装数量
$180_{-3}^{0}$	60 <sup>+1</sup>	16	16 ± 0. 3	20.4 $\pm$ 1.0	1,000个





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Unit

单位:mm



Test Item 项目	Condition of Test 试验条件及要求	Performance Requirements 性能要求	
GROSS LEAK TEST 漏率	Helium: force 200kpa, dipping time 70min, blowing 5min, finishing the measure in 30min. 氦质谱,压力 200kpa,浸渍时间 70min,吹风 5min, 30min内完成测量泄露率 ≤4×10 <sup>-9</sup> pa.m <sup>3</sup> /s	≤ 4 × 10 <sup>-9</sup> pa.m <sup>3</sup> /s	
Vibration 振动	Endurance condition by a frequency sweep shall be made. the entire frequency range from 10HZ to 55HZ and return to 10HZ, shall be transversed in 1min. Amplitude (total excursion): 1.5mm This motion shall be applied for a period of 2h each of 3 mutually perpendicular axes(a total of 6h) 振动频率:从10HZ 到 55HZ,再回到 10HZ 1 倍频程/min 幅度为 1.5mm 3 个相互垂直的方向各 2 小时		
Drop 跌落 Shock 冲击 Damp heat, constant 恒定湿热 Cold 低温存储 Dry heat 高温存储 Charged aging 带电老化 Aging 温度老化	From 1000mm height 2 times on 30mm hard wooden floor 振荡器从 1000 毫米高处跌落到 30 毫米厚的硬质木板上, 重复 2 次		
	Peak acceleration:1000m/s <sup>2</sup> Duration of the pulse :6ms Three successive shocks shall be applied in both direction of 3 mutually perpendicular axes( a total of 18 shocks) 加速度: 1000m/s <sup>2</sup> 时间: 6ms 作用在3个相互垂直的方向		
	<ul> <li>The unit shall be stored at a temperature of 40℃±2℃ with relative humidity of 90% to 95% for 56d, then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.</li> <li>在温度: 40℃±2℃、湿度: 90% to 95%条件下存放 56 天, 然后在标准 大气压下放置1小时后测试</li> </ul>	The parameters of table 3 must be satisfied 满足表 3 中的参数 要求	
	The unit shall be stored at a temperature of $-55\pm3$ °C for 2h, then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made. 在-55°C ± 3°C 下存放 2 小时, 然后在标准大气压下放置 1 小时后测试		
	The unit shall be stored at a temperature of 125±3℃ for 16h, then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made. 在 125℃±3℃下存放 16小时,然后在标准大气压下放置1小时后测试		
	The unit shall be charged and stored at a temperature of 25±2 ℃ for 30d. 带电在 25±2℃下放置 30 天		
	The unit shall be stored at a temperature of 85±2℃ for 30d, then it shall be subjected to standard atmospheric conditions for lh after which measurement shall be made. 在 85±2℃下放置 30 天,然后在标准大气压下放置 1 小时后测试		









6 Notice 备注:				
Standard atmospheric conditions:				
Unless otherwise specified, the standard range of atmospheric conditions				
for mading measurements and tests are as follows:				
如无其他规定,测试时的标准大气压的范围如下:				
Ambient temperature : $25^{\circ}C \pm 10^{\circ}C$				
Relative humidity : 30% to 80%				
Air pressure : 860hPa to 1060hPa				
If there is no doubt about the result, the measurements and tests shall be				
made within the follows limits:				
如果对测试结果有疑问,请在下面的条件下测试:				
Ambient temperature : $25^{\circ}C \pm 2^{\circ}C$				
Relative humidity : 55% to 65%				
Air pressure : 860hPa to 1060hPa				
If there has any change of the Part Specification, the ver code will be				
changed to B,C如果本规格书有变更,版本号将改变为 B,C依次类推.				
8 ESD LEVEL 防静电等级				

HBM CLASS 2 人体模式,静电等级二

Class 2 : 2000v-4000v





### **REVIEW OF SPECIFICATIONS**

1) When something get doubtful with this specifications, we shall jointly work to get an agreement.

2) This specification limits the quality of the components as a single unit. Please insure the component is thoroughly evaluated in your application circuit.

3) Please do not use this component in any application that deviates from its intended use as noted within the specification. It may cause any mishaps.

4) Please return one of this specification after your signature of acceptance. In case of no return within 3 months from submission date. This specification should be treated as accepted.

### When using our products, the following precautions should be taken.

(1) Safety designing of apparatus or a system allowing for failures of electronic components used in the system

In general, failures will occur in electronic components at a certain probability. MOBICON HOLDINGS LTD makes every effort to improve the quality and reliability of electronic component products. However, it is impossible to completely eliminate the probability of failures. Therefore, when using MOBICON HOLDINGS LTD electronic component products, systems should be carefully designed to ensure redundancy in the event of an accident which would result in injury or death, fire, or social damage, to ensure the prevention of the spread of fire, and the prevention of faulty operation.

- (2) Quality Level of various kinds of parts, and equipment in which the parts can be utilized Electronic components have a standard quality level unless otherwise specified.
- (3) This specifications is subject to change without notice. The contents of this specifications are based on data which is correct as of 2002, and they may be changed without notice. If our products are used for mass-production design, please enquire consult with a member of our company's sales staff by way of precaution.
- (4) Reprinting and copying of this specifications without prior written permission from MOBICON HOLDINGS LTD are not permitted.
- (5) Indust rial Property Problems

In the event any problems associated with industrial property of a third party arising as a result of the use of our products. MOBICON HOLDINGS LTD assumes no responsibility for problems other than problems directly associated with the constitution and manufacturing method of the products.

