







深圳扬兴科技有限公司 产品规格书 SPECIFICATION

产品名称	石英晶体振荡器 QUARTZ CRYSTAL OSCILLATOR
型号	YSO110TR
料 号	OT8JI-111-100M
参数描述	SMD-7050-100MHZ-1.8V-3.3V/+10PPM-CMOS
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确认签章

客户		
客户物料号		
机种/型号		
批准	审核	检 验

扬兴签核

制定	审核	批准
朱灿维		

深圳扬兴科技有限公司

Shenzhen YangXing Technology Co.,Ltd.

地址:深圳市龙华区民治街道民塘路385号汇德大厦1号楼19层

ADDRESS: 19th Floor, 1st Huide Building, Mintang Rd No.385, Longhua District, Shenzhen

TEL: 0755-28444777 WEB: http://www.yxc.hk









REV. 版本	Description of Revision History 修改内容	Date 日期	Engineer 工程师	Reviewer 审核
A.0	新版页面修改	2020/11/11	马占军	蔡荣洪
B.0	新版页面修改,变更工程师 审核人员	2022/3/1	康明红	马占军











MHz Range Crystal unit

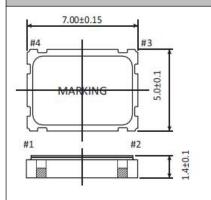
YSO110TR

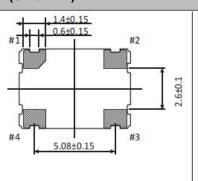
Product name 系列型号 YSO110TR 100.00000MHz 1.8V-3.3V -/+10PPM

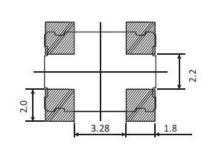
Product Number / Ordering code 产品料号 OT8JI-111-100M

1.Specifications (电气参数)						
Supply Voltage(Vdd)10%	1.8~3.3V					
Frequency	100MHz					
Current Consumption	12mA					
Frequency Tolerance(at 25˚ℂ)	±10ppm					
Frequency Tolerance VS operating temperature	±20ppm					
Output Load(CMOS)	15pF					
Operating Temperature Range	-40~+85℃					
Storage Temperature Range	-55~+125℃					
Voltage Vol(Max.)/ Vol(Min.)	VOH = 90%Vdd/VOL = 10%Vdd					
Duty Cycle	45~55%					
Start-up Time	3ms Max					
Rise/Fall Time	4nS Max					
Frequency Aging (at 25˚ℂ)	±3 ppm / year Max					

2.External dimensions(外观尺寸 (Unit: mm)





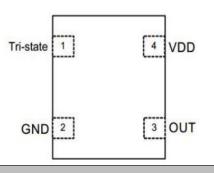


Pin Dimension

Pin	#1	#2	#3	#4
FUNCTION	Tri-state	GND	OUTPUT	VDD

^{*}右图仅供PIN功能说明

Pin Assignments



3.Marking information(丝印说明)

YXC① 100.000M② • 3 30 2 D ③ ④ ⑤ ⑥

- ①YangXing LOGO ⑥Voltage+Operating Temperature
- 2Frequency
- ③Year
- 4The production cycle
- ⑤Line

置置 [] 扬兴晶振

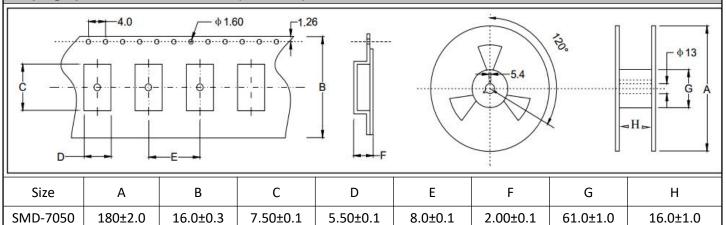








4.Taping Specification(载带规格)(Unit: mm)



1000 pcs per reel

5.Reliability characteristic (可靠性)

NO (序号)	Item (项目)	Condition (环境条件)	Reference (参考标准)	Specifications (说明)
5.1	Solderability (可焊性)	Solder bath temperature:260°C,dwell time:5 seconds,Solder: 100% tin	IEC68-2- 20:1979	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.
5.2	Resistance to soldering heat (焊接耐热性)	Solder temperature 260+/-5°C,Immersion time:10 S Solder bath composition:100% tin	IEC68-2- 58:1989	ΔF≤+/-5ppm
5.3	Vibration (机械振动)	The entire frequency range: 10Hz to 55Hz, Amplitude: 1.5mm This motion shall be applied for a period of 2 h in each of 3 mutually perpendicular axes(a total of 6h)	IEC 68-2- 21:1992	ΔF≤+/-5ppm
5.4	Drop test (跌落测试)	Drop from 75cm height on 3cm hard wooden board for 6 times	IEC68-2- 32:1990	ΔF≤+/-5ppm
5.5	Cold Storage (低温储存)	The quartz crystal unit shall be stored at a temperature of -40+/-3°C for 1000 h.then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.	IEC68-2- 6:1982	ΔF≤+/-5ppm
5.6	High temperature High humidity storage(steady state) (高温高湿度储 存)	The quartz crystal unit shall be stored at a temperature of 40+/-2°C with relative humidity of 95% for 1000h, then it shall be subjected to standard atmospheric conditions for 2h after which measurement shall be made.	IEC60068- 2-1:1990	ΔF≤+/-5ppm

置置 [B] 扬兴晶振

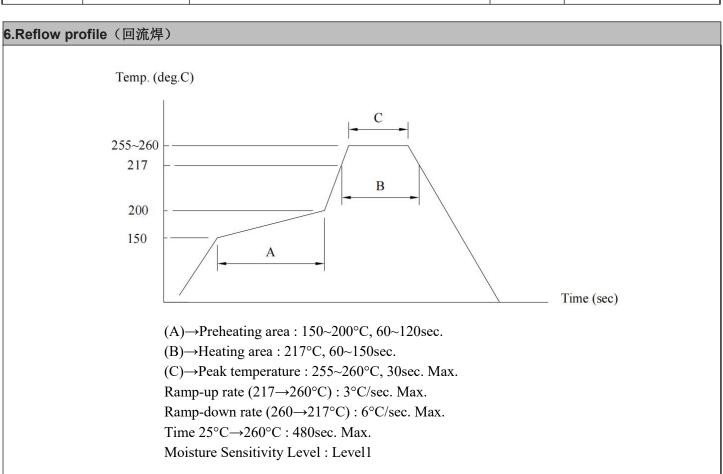








5.7	Thermal shock (温度冲击测	The quartz crystal unit shall be subjected to 50 successive Change of temperature cycles. Each as shown in table below ,then it shall be subjected to standard atmospheric conditions for 1h after which measurement shall be made.			IEC68-2-	ΔF≤+/-5ppm
	试)	NO	Temperature	Duration	14:1986	**
		1	-40+/-3°C	15minutes		
		2	105+/-2°C	15minutes		
		3	Transition time	Within 10 seconds		
5.8	Sealing (气密性)	measu		ector shall used to of gas through any faulty duration:120 minutes.	IEC68-2- 3:1984	Leakage rate≤ 1*10-9 Pa.m3/S
5.9	High temperature Life test (高温储存测 试)	temper subjec	rature of 105+/-3°C	t shall be stored at a for 168h ,then it shall be espheric condition for 1h ment shall be made.		ΔF≤+/-5ppm













7.Notce(注意)

- · 包装 PACKING
- · 包装方式应符合运输和装卸要求,特殊包装须经双方认可。
- · Packing must prevent damage during transportation and handing. Specific method will be settled by mutual agreement.
- · 对环境影响 INFLUENCE TO ENVIRONMENT
- · 本产品在生产过程中不使用 ODS I, 对臭氧层无破坏.
- · This product doesn't use the class I ODS at any of production process .
- · 生产厂家 MANUFACTURE
- · 公司名称:深圳扬兴科技有限公司
- · Shenzhen YangXing Technology Co.,Ltd.
- · 其它 OTHERS
- · 1. 如果您对本公司产品规格书有疑问或书中未列出,请与我方联系,协商解决及改进。
- · If you have some doubt or unknowing about this specification, Please contact us for settlement or development.
- 2.我们按照产品规格书要求保证晶体品质,若客户要求具体数据,我们可提供。
- · We guarantee that quartz crystal unit satisfies this specification, If you need the data, we will provide it.
- · 3.变更与联络(MODIFY AND CONTACT)
- · 本产品在设计、工艺、材料、生产厂所、关键设备、操作人员等影响产品质量的因素有变更时,应事先提供更改后的产品并经过
- · 质量认可后,方可大批量供货。
- · When the quality is changed due to the changes of the design, technology, material, manufacture place, main equipment and
- workers, we will first supply the modified products and obtain approval from you, then start to supply mass production.
- 4.售前售后服务(AFTER SALE SERVICE)
- · 若在生产过程中遇到不良品,本公司负责调换,并及时提交不良品的分析及改进措施报告经认可。
- · If the defection product was found in the production process, we will exchange and provide the improving measures in time.

Contact us

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