







# 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	OT1JI-111-8M
参数描述	SMD-5032-8MHZ-1.8V-3.3V/+10PPM
页 次	共6页

## 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









= ==			Ro	
REV.	Description of Revision History	Date	Engineer	Reviewer
版本	修改内容	日期	工程师	审核
A.0	新版页面修改	2020/11/11	马占军	蔡荣洪
	<b>並尼五度な</b>			
B.0	新版页面修改,变更工程师	2022/3/1	康明红	马占军
	审核人员		7.44 741=	V 1 1 1











MHz Range Crystal unit

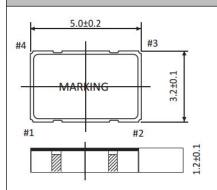
**YSO110TR** 

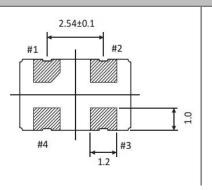
Product name 系列型号 YSO110TR 8MHZ 1.8V-3.3V -/+10PPM

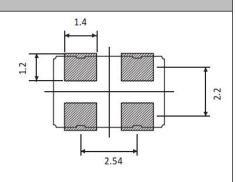
Product Number / Ordering code 产品料号 OT1JI-111-8M

1.Specifications (电气参数)				
Supply Voltage	1.8~3.3V			
Frequency	8MHz			
Current Consumption	5mA Max.			
Frequency Tolerance(at 25℃)	±10ppm			
Frequency Tolerance VS operating temperature	±20ppm			
Output Load	15pF			
Standby Current	10uA			
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℃)	±3 ppm / year Max.			

#### 2.External dimensions(外观尺寸 (Unit: mm)





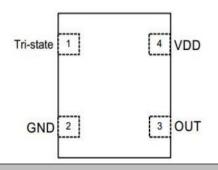


### Pin Dimension

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

<sup>\*</sup>右图仅供PIN功能说明

### Pin Assignments



#### 3.Marking information(丝印说明)

YXC1 8.0002 3 17 2 D 3 4 5 6

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

# **萱萱** € | 扬兴晶振

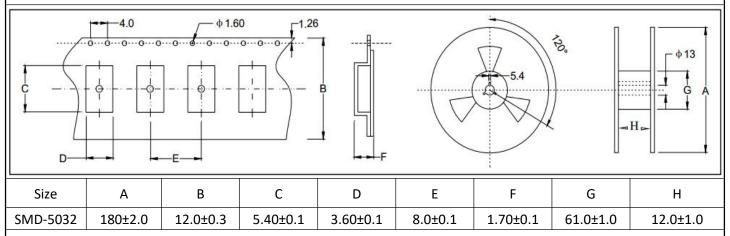








### 4.Taping Specification(载带规格)(Unit: mm)



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℃,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	∆F≤+/-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	∆F≤+/-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	∆F≤+/-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



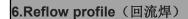


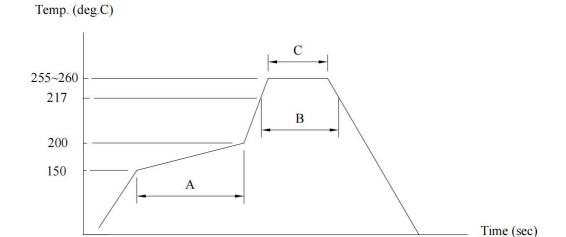




(C)4)
lead-free

5.7	Thermal shock (温度冲击测 试)	suc Each subje	cessive Change of as shown in table ected to standard a	nall be subjected to 50 temperature cycles. below ,then it shall be tmospheric conditions rement shall be made.  Duration 15minutes 15minutes Within 10 seconds	IEC68-2- 14:1986	ΔF≤+/-5ppm
5.8	Sealing (气密性)	meas	Helium leakage detector shall used to measure the leakage rate of gas through any faulty seal. Pressure:500Kpa, duration:120 minutes.			Leakage rate≤ 1*10 <sup>-9</sup> Pa.m³/S
5.9	High temperature Life test (高温储存测 试)	The quartz crystal unit shall be stored at a temperature of 105+/-3°C for 168h ,then it shall be subjected to standard atmospheric condition for 1h after which measurement shall be made.			IEC60068-2- 2:1974	∆F≤+/-5ppm





(A) $\rightarrow$ Preheating area : 150 $\sim$ 200°C, 60 $\sim$ 120sec.

(B)→Heating area : 217°C, 60~150sec.

(C) $\rightarrow$ Peak temperature : 255 $\sim$ 260°C, 30sec. Max. Ramp-up rate (217 $\rightarrow$ 260°C) : 3°C/sec. Max. Ramp-down rate (260 $\rightarrow$ 217°C) : 6°C/sec. Max.

Time 25°C→260°C : 480sec. Max. Moisture Sensitivity Level : Level1











#### 7.Notice(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

www.yxc.hk