







# 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	OT705050MJBA4SL			
参数描述	SMD-7050-50MHZ-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
康明红		

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











	lead-free			
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.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

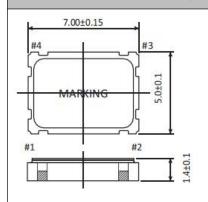
Product name 系列型号

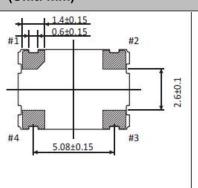
YSO110TR 50MHz 1.8V-3.3V -/+10PPM

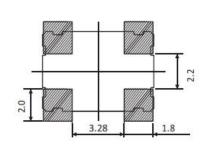
Product Number / Ordering code 产品料号 OT705050MJBA4SL

1.Specifications (电气参数)				
Supply Voltage	1.8~3.3V			
Frequency	50MHz			
Current Consumption	12mA			
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%			
Rise/Fall Time	5nS Max.			
Frequency Aging (at 25℃)	±3 ppm / year Max.			
12kHz to 20MHz	1ps			

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





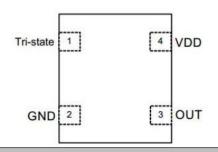


## Pin Dimension

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 50.0002 0 32 2 L 3 4 5 6

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



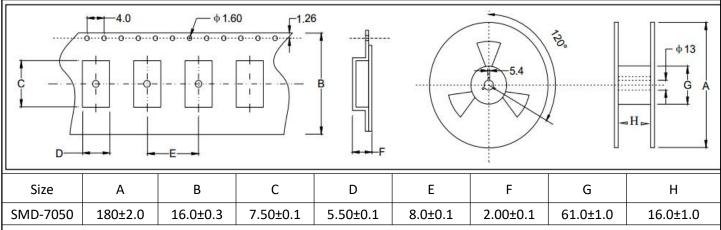








## 4.Taping Specification(载带规格)(Unit: mm)



1000 pcs per reel

#### 5.Reliability characteristic (可靠性)

5.Reliability characteristic (円事性)					
NO (序号)	Item (项目)	Condition (环境条件)	Reference (参考标准)	Specifications (说明)	
		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	applied for a period of 2 n in each of 3 mutually perpendicular axes(a total of 6h)		IEC 68-2- 21:1992	∆F≤+/-5ppm	
5.4			IEC68-2- 32:1990	ΔF≤+/-5ppm	
5.5	Cold Storage (低温储存)			∆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	











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5.7	Thermal shock (温度冲击测 试)	successive Change Each as shown in tak subjected to standard	t shall be subjected to 50 of temperature cycles. le below ,then it shall be latmospheric conditions surement shall be made.  Duration 15minutes 15minutes Within 10 seconds	IEC68-2- 14:1986	∆F≤+/-5ppm
5.8	Sealing (气密性)	measure the leakage faulty seal. Pressure	letector shall used to rate of gas through any e:500Kpa, duration:120 nutes.	IEC68-2- 3:1984	Leakage rate≤ 1*10 <sup>-9</sup> Pa.m³/S
5.9	High temperature Life test (高温储存测 试)	temperature of 105+/-be subjected to standa	nit shall be stored at a 3℃ for 168h ,then it shall ard atmospheric condition surement shall be made.		ΔF≤+/-5ppm











#### 6.Reflow profile (回流焊)

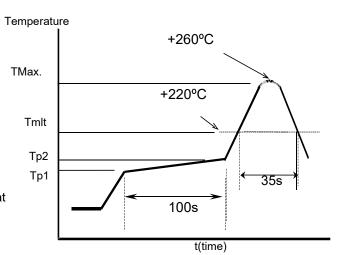
Pre Heating Temperature Tp1 ~ Tp2 = + 170 °C Heating Temperature TMIt = + 220 °C

Peek Temperature TMax. = + 260 °C

Point of measuring
In case of Solder ability

Terminal.

In case of Resistance to soldering heat Surface.



#### 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