









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	OT322512.288MJBA4SL			
参数描述	MD-3225-12.288MHZ-1.8V-3.3V/+10PPM			
页次	共6页			

批准	检验
蔡荣洪	马占军

确 认 签 章 APPROVAL SIGNATURE

客户		
客户物料号		
机种/型号		
批准	审核	检 验

深圳扬兴科技有限公司

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REV.	Description of Revision History	Date	Engineer	Reviewer
版本	修改内容	日期	工程师	审核
A0.0	新版页面修改	2020/11/11	马占军	蔡荣洪











MHz Range Crystal unit

YSO110TR

Product name 系列型号

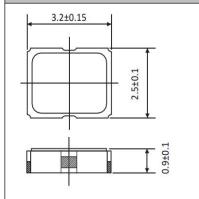
YSO110TR 12.288MHz 1.8V-3.3V -/+10PPM

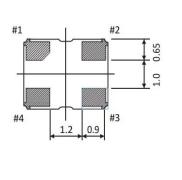
Product Number / Ordering code 产品料号 OT322512.288MJBA4SL

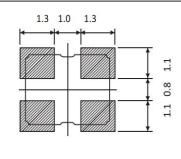
Reference weight Typ. mg

1.Specifications (电气参数)	
Supply Voltage(Vdd)10%	1.8~3.3V
Frequency	12.288MHz
Current Consumption	5mA
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°C
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.

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





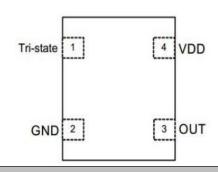


Pin Dimension

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)

[1]The suffix "I" in marking stands for operating temperature range between -40 ℃~+85 ℃.

YXC1 12.2882 0 32 2 D 3 4 5 6

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



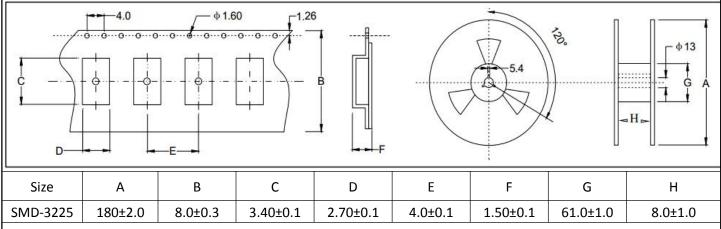








4.Taping Specification(载带规格)(Unit: mm)



3000 pcs per reel

5.Reliability characteristic (可靠性)

S. Kellability Characteristic (SIRE)						
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℃ 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℃ 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)	The quartz crystal unit s successive Change of Each as shown in table subjected to standard a for 1h after which measurements of the subjected to standard a for 1h after which measurements of the subjected to standard a for 1h after which measurements of the subject of the succession of the successi	temperature cycles. below ,then it shall be tmospheric conditions	IEC68-2- 14:1986	∆F≤+/-5ppm
5.8	Sealing (气密性)	Helium leakage det measure the leakage ra faulty seal. Pressure:5 minut	ate of gas through any 00Kpa, duration:120	IEC68-2- 3:1984	Leakage rate≤ 1*10 ⁻⁹ 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.			ΔF≤+/-5ppm











6.Reflow profile (回流焊)

Pre Heating Temperature

 $Tp1 \sim Tp2 = + 170 °C$

Heating Temperature

TMIt = + 220 °C

Peek Temperature

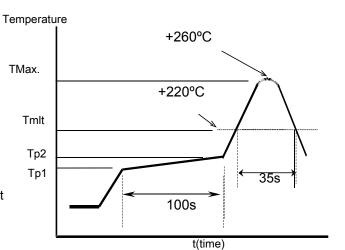
TMax. = + 260 °C

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.

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