







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	OT7050100MJBA4SL
参数描述	SMD-7050-100MHZ-1.8V-3.3V/+10PPM
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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
康明红		

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
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

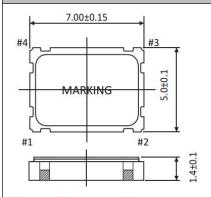
Product name 系列型号

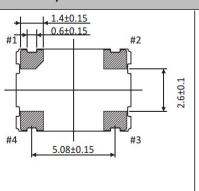
YSO110TR 100MHz 1.8V-3.3V -/+10PPM

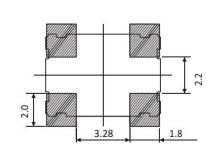
Product Number / Ordering code 产品料号 OT7050100MJBA4SL

1.Specifications (电气参数)					
Supply Voltage	1.8~3.3V				
Frequency	100MHz				
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°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˚ℂ)	±3 ppm / year Max.				

2.External dimensions(外观尺寸 (Unit: mm)





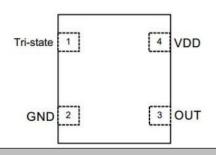


Pin Dimension

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)

YXC(1) 100.000(2) 0 32 2 D (3) (4) (5) (6)

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



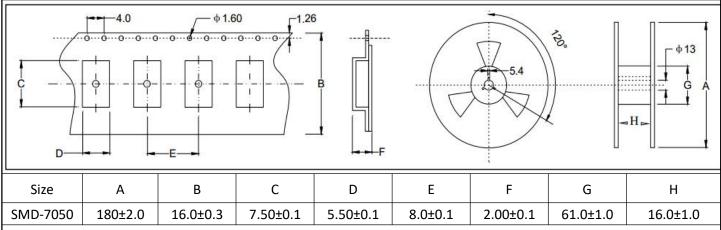








4.Taping Specification(载带规格)(Unit: mm)



1000 pcs per reel

5.Reliability characteristic (可靠性)

5.Reliability Characteristic (引事圧)						
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℃,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	ΔF≤+/-5ppm		
5.5	Cold Storage (低温储存)			∆F≤+/-5ppm		
5.6 storage(steady		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		











5.7	Thermal shock (温度冲击测 试)	suc Each subje	cessive Change of as shown in table ected to standard a	hall be subjected to 50 temperature cycles. below ,then it shall be tmospheric conditions trement shall be made. Duration 15minutes 15minutes Within 10 seconds	IEC68-2- 14:1986	∆F≤+/-5ppm
5.8	Sealing (气密性)	meas		ite 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)

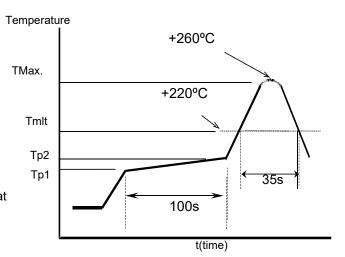
Pre Heating Temperature Tp1 ~ Tp2 = + 170 °C Heating Temperature TMIt = + 220 °C Peek Temperature

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

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