

# 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
产品系列	YSO110TR
料 号	OT3EL89CJI-111YLC-50M
参数描述	SMD-2520-50MHZ-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
陈幸		

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

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TEL: 0755-28444777

WEB: <http://www.yxc.hk>





MHz Range Crystal Unit  
Product Name 系列型号  
Product Number / Ordering Code 产品料号

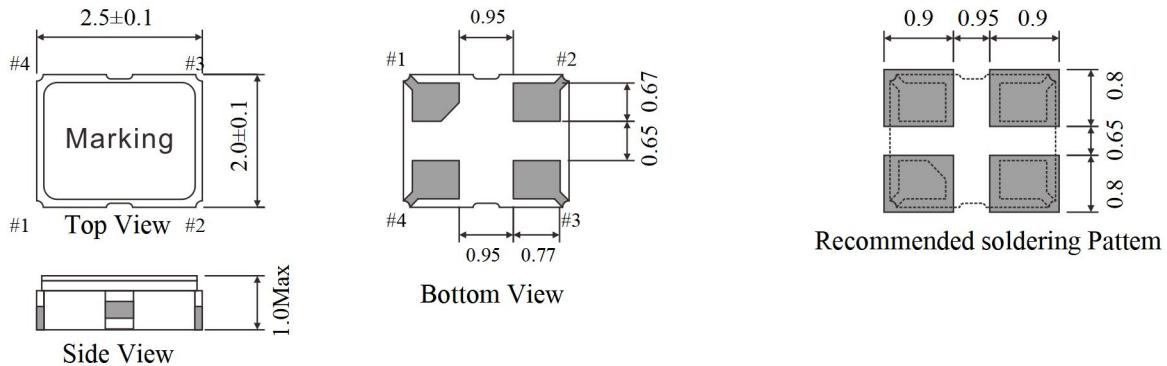
YSO110TR  
YSO110TR 50.00000MHz 1.8V-3.3V ±10PPM  
OT3EL89CJI-111YLC-50M



### 1. Specifications (characteristics) (规格参数)

Supply Voltage(Vdd)10%	1.8~3.3V	
Frequency	50MHz	
Current Consumption	12mA Max.	
Frequency Tolerance(at 25°C)	±10ppm	
Frequency Tolerance VS operating temperature	±20ppm	
Output Load(CMOS)	15pF	
Operating Temperature Range	-40~+85°C	
Storage Temperature Range	-55~+125°C	
Voltage Voh ( Min. ) / Vol ( Max. )	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	
Phase Jitter [12 kHz ~ 20 MHz]	0.7ps Max	
Tri-State	Enable(High Voltage or Floating)	70% of VDD Min
	Disable(Low Voltage or GND)	30% of VDD Max

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

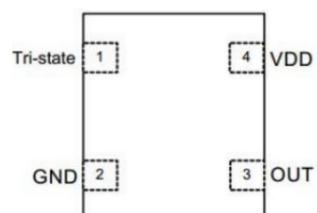


### 3. Pin dimension (脚位尺寸)

#### Pin Assignments

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

\*The picture on the right is only for PIN function description.

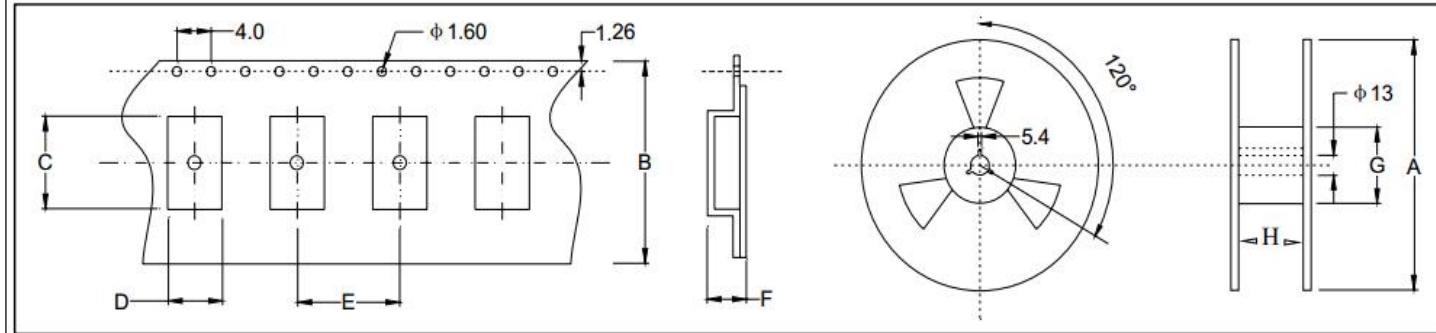


#### 4. Marking information (丝印说明)

**YXC ①**  
**50.00②**  
**• 3 40 \***  
**③ ④ ⑤**

- ①YXC LOGO
- ②Frequency
- ③Year
- ④Production cycle
- ⑤Line

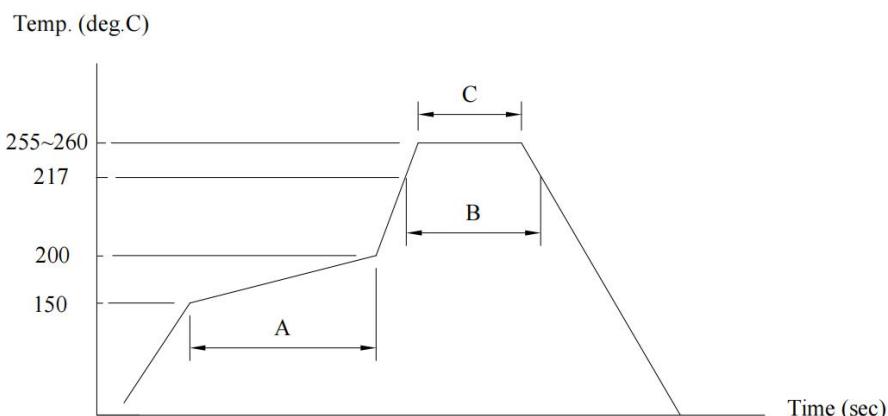
#### 5. Taping Specification (载带规格) (Unit: mm)



Size	A	B	C	D	E	F	G	H
SMD-2520	180±2.0	8.0±0.3	2.90±0.1	2.40±0.1	4.0±0.1	1.20±0.1	61.0±1.0	9.5±0.5

3000 pcs per reel

#### 6. Reflow profile (回流焊)



(A)→Preheating area : 150~200°C, 60~120sec.

(B)→Heating area : 217°C, 60~150sec.

(C)→Peak temperature : 255~260°C, 30sec. Max.

Ramp-up rate (217→260°C) : 3°C/sec. Max.

Ramp-down rate (260→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 MANUFACTURER

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.如需应用于超声波环境下，请与我们联系。

For application in ultrasonic environment, please contact us.

4.在电路设计中，不要将晶振设计在电路板边缘。

In the circuit design, do not layout the crystal at the PCB edge.

5.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.

6.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 defect product was found in the production process, we will exchange and provide the improving measures in time.

**此规格书仅供参考。若有需要，请与我方索要正式承认书作为物料承认及质量判定依据。**

This specification is for reference only. If needed, please request a formal letter of acknowledgment from our side to serve as the basis for material acknowledgment and quality judgment.

## 8. Contact us (联系我们)

[www.yxc.hk](http://www.yxc.hk)