



成为国际一流时钟频率器件服务商

BUILDING WORLD-CLASS TIMING SOLUTIONS

 产品手册

 WWW.YXC.HK

30+ 年时钟频率器件行业经验

100+ 国家及地区服务用户

10万+ m² 创新产品研发基地

About YXC

关于YXC



深圳扬兴科技有限公司(以下简称:YXC),自2010年成立以来,一直专注于时钟频率器件的研发、生产和销售,是业界领先的半导体高新技术企业。

公司主营产品包括晶振、可编程振荡器、(VC) TCXO、三级钟、锁相环芯片以及实时时钟芯片等。研发产品通过了AEC-Q200、IATF16949车用体系认证及ISO14001环境管理体系、ISO9001质量管理等体系认证,全频率产品生态链广泛应用于车载、通信、工业、医疗和军工等领域。

近年来,公司不断加大对时钟芯片、MEMS及高稳晶振的研发投入,汇聚了一批来自海内外的行业高端人才,先后成立了台湾半导体研发中心和华南频率器件生产中心,成为国内首家可编程晶振厂商,并获得国家级专精特新小巨人、绿色工厂等荣誉称号。

YXC秉承着“赋予科技生命力,携手伙伴共富足”的使命,以“成为国际一流的时钟频率器件服务商”为愿景,坚持技术创新和价值创造,为成就全球客户的卓越贡献自己的力量。

我们的优势

OUR ADVANTAGES

技术领先

- 国内领先可编程晶振厂家
- 自研时钟芯片
- 丰富的高端产品定制开发经验

质量保障

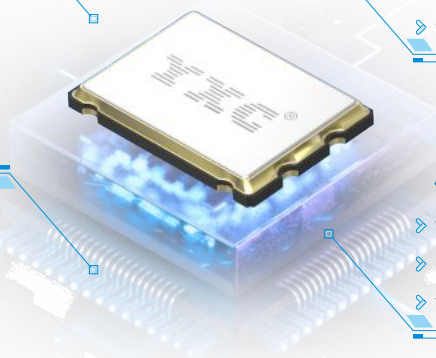
- 自建独立可靠性实验室
- 生产制程可做到100%溯源
- 通过IATF16949认证、质量示范企业

专业服务

- 快速响应&送样&交付
- 20余年专业售前&售后服务团队
- 产品系列齐全,一站式采购

优质供应

- 设计研发、生产销售全链路打通
- 与核心主材供应商签订战略合作
- 全流程数字化系统管理



YXC Programmable OSC

YXC石英可编程晶振



高频范围·任意定制

» 1MHz~2100MHz范围内(精确至小数点后六位), 任意频点选择定制



快速交付·灵活供应

» 样品2秒出样, 可灵活调整设计
» 批量最快一周可交付, 备货更灵活



卓越性能·极致可选

» 超高精度 $\pm 2.5\text{PPM}$ (min.)
» 超低抖动150fs (min.)
» 超宽温区 $-40\sim +125^{\circ}\text{C}$ (max.)



品类齐全·一站选购

» 涵盖SPXO/VCXO/VC-TCXO/TCXO
» 覆盖2016~7050封装
» 提供CMOS/LVDS/LVPECL/HCSL/CML输出方式

石英可编程生产流程图

PROGRAMMABLE OSC PRODUCTION PROCESS

程序烧录

时间: 2S

印字编带

2秒出样

传统振荡器生产流程图

TRADITIONAL OSC PRODUCTION PROCESS

IC绑定

烤胶

固晶

排片

清洗

烘干

镀膜

点胶

固化

微调

中检

测试印字编带一体化

测漏

老化








模拟回流焊

中检

封焊

退火






32.768kHz Tuning Fork Quartz Crystals

	Series	Package Size [mm]	Frequency	Load Capacitance	Features
	YT-26 	2.0*6.0	32.768 kHz	12.5 pF	高性价比 Cost-effective solution
	YT-38 	3.0*8.0	32.768 kHz	12.5 pF	高性价比 Cost-effective solution
推荐!	YSX1610SK 	1.6*1.0*0.5	32.768 kHz	7, 9, 12.5 PF, or specify	贴片式金属封装 Seam sealed metal SMD package
推荐!	YSX2012SK 	2.0*1.2*0.6	32.768 kHz	7, 9, 12.5 PF, or specify	贴片式金属封装 Seam sealed metal SMD package
热销!	YST310S 	3.2*1.5*0.8	32.768 kHz	7, 9, 12.5 PF, or specify	贴片式金属封装 Seam sealed metal SMD package
	YSX146GA 	7.0*1.5*1.4	32.768 kHz	7, 9, 12.5 PF, or specify	/
	YSX306GA 	8.0*3.8*2.5	32.768 kHz	7, 9, 12.5 PF, or specify	/



MHZ Quartz Crystals

	Series	Package Size [mm]	Frequency Range	Load Capacitance	Features
	HC-49US 	11.5*4.5*3.68	3.2768 ~ 32 MHZ	7 to 22 pF or specify	/
	HC-49SMD 	11.4*4.8*3.8	3.2768 ~ 32 MHZ	7 to 22 pF or specify	/
	HC-49XSMD 	6.1*4.0*2.0	8 ~ 50 MHZ	7 to 22 pF or specify	/
	YSX1210SL 	1.2*1.0*0.4	32 ~ 60 MHZ	6 to 22 pF or specify	超小超薄 Ultra miniature
	YSX1612SL 	1.6*1.2*0.4	24 ~ 60 MHZ	6 to 22 pF or specify	超小超薄 Ultra miniature
热销!	YSX211SL 	2.0*1.6*0.5	16 ~ 54, or 96 MHZ	6 to 22 pF or specify	超小超薄 Ultra miniature
	YSX221SL 	2.5*2.0*0.6	12 ~ 54 MHZ	7 to 22 pF or specify	贴片式金属封装 Seam sealed metal SMD package
热销!	YSX321SL 	3.2*2.5*0.7	8 ~ 64 MHZ	7 to 22 pF or specify	贴片式金属封装 Seam sealed metal SMD package
	YSX531SL 	5.0*3.2*0.9	8 ~ 54 MHZ	7 to 22 pF or specify	贴片式金属封装 Seam sealed metal SMD package
	YSX530GA 	5.0*3.2*1.2	8 ~ 54 MHZ	7 to 22 pF or specify	贴片式陶瓷封装 Seam sealed ceramic SMD package
	YSX211TS 	2.0*1.6*0.7	19.2, 38.4, 76.8 MHZ, or specify	7 to 22 pF or specify	出色的频率稳定性 Excellent frequency stability over temperature
	YSX221TS 	2.5*2.0*1.0	19.2, 38.4, 76.8 MHZ, or specify	7 to 22 pF or specify	出色的频率稳定性 Excellent frequency stability over temperature


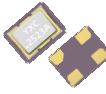
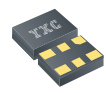
SPXO(CMOS Output)

	Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
热销!	YSO110TR		1 ~ 125 MHz, or specify	1.8 to 3.3V CMOS	高可靠性 High reliability OSC
	YSO120TK		32.768 kHz	1.8 to 3.3V CMOS	32.768kHz OSC.
	YSO130HR		1 ~ 100 MHz, or specify	5V CMOS	高可靠性 High reliability OSC
	YSO131LR		20 ~ 50 MHz, or specify	1.2V CMOS	低电压1.2V 1.2V Low Voltage Osc.
推荐!	YSO150HT		1 ~ 125 MHz, or specify	1.8 to 3.3V CMOS	宽温、耐高温: -40 to +125°C Wide temperature range: up to -40 to +125°C




SPXO(Differential Output)

	Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
热销!	YSO230LR		13.5 ~ 200 MHz	1.8V/ 2.5 to 3.3V LVDS / LVPECL / HCSL	低抖动: 0.1ps (Typ.) Low jitter: 0.1ps (Typ.)
推荐!	YSO231LJ		100 ~ 250 MHZ	1.8/ 2.5/ 3.3V LVDS / LVPECL / HCSL	超低抖抖r: 0.05ps (Typ.) Ultra low jitter: 0.05ps (Typ.)



TCXO/ VCTCXO

	Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
推荐!	YSO510TP		10 ~ 52 MHz	1.8/ 2.5/ 3/ 3.3V CMOS/ Clipped Sine Wave	高精度、高稳定性: ±2.5 ppm (Typ.), ±0.28 ppm (available) Superior frequency stability: ±2.5ppm (Typ.), ±0.28 ppm (available)
	YSV350TP		6.4 ~ 60MHz, or specify	1.8/ 2.5/ 3/ 3.3V CMOS/ Clipped Sine Wave	低功耗: 6mA 高稳定性±0.5 ppm (available) Superior frequency stability: ±0.5 ppm (available)
	YSO512ET		10, 12, 12.8, 19.2, 20, 24.576, 25, 30, 32, 40, 48, 50MHz, or specify	1.8/ 2.5/ 3/ 3.3V CMOS/ Clipped Sine Wave	超高精度、高稳定性: ±0.1 ppm (available) Ultra high precision: ±0.1 ppm (available)

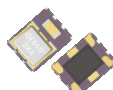
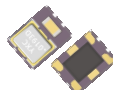
Programmable SPXO(CMOS Output)

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
<div>热销!</div> <div>YSO690PR</div> 	2.0*1.6*0.8 2.5*2.0*0.8 3.2*2.5*0.9 5.0*3.2*1.2 7.0*5.0*1.4	1 ~ 200 MHz	1.8/ 2.5/ 3.3V CMOS	宽频率范围、快速交付 Wide frequency range available Fast delivery
<div>推荐!</div> <div>YSO691ER</div> 	5.0*3.2*1.8 7.0*5.0*1.8	1 ~ 200 MHz	1.8/ 2.5/ 3.3V CMOS	高性价比/高抗震性 Low cost solutions/Shock resistant
<div>YSO692PR</div> 	3.2*2.5*1.0 5.0*3.2*1.4 7.0*5.0*1.8	150~250MHz	1.8/ 2.5/ 3.3V CMOS	超低抖动: 0.159 ps typ. @ 156.250 MHz Ultra low jitter: 0.159 ps typ. @ 156.250 MHz



Programmable SPXO(Differential Output)

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
<div>热销!</div> <div>YSO210PR</div> 	3.2*2.5*1.2 5.0*3.2*1.3 7.0*5.0*1.6	10~1500MHz	2.5/ 3.3V LVDS/ LVPECL	宽频率范围、快速交付 Wide frequency range available Fast delivery
<div>YSO211PJ</div> 	3.2*2.5*1.0 5.0*3.2*1.4 7.0*5.0*1.8	150~2100MHz	1.8 / 2.5 / 3.3V LVDS/ PECL/ HCSL/ CML	宽频率范围 超低抖动: 0.159 ps typ. @ 156.250 MHz Wide frequency range available Ultra low jitter: 0.159 ps typ. @ 156.250 MHz



Programmable TCXO

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
<div>YSO511PJ</div> 	3.2*2.5*1.6 7.0*5.0*2.5	10~250MHz	2.5/ 3.3V CMOS	宽频率范围、快速交付 高稳定性: ± 2.5 ppm (max.) Wide frequency range available/Fast delivery Superior frequency stability: ± 2.5 ppm (max.)
<div>推荐!</div> <div>YSO250PT</div> 	3.2*2.5*1.6 7.0*5.0*2.5	10~1500MHz	2.5/ 3.3V LVDS/ LVPECL	宽频率范围、快速交付 高稳定性: ± 2.5 ppm (max.) Wide frequency range available/Fast delivery Superior frequency stability: ± 2.5 ppm (max.)

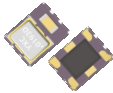
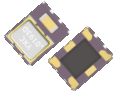
Programmable VCXO(CMOS Output)

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
<div>YSV310PR</div> 	3.2*2.5*1.2 5.0*3.2*1.3 7.0*5.0*1.6	10~250MHz	2.5/ 3.3V CMOS	宽牵引范围: ± 50 ppm (min) 超低抖动: 1.0 ps typ. Wide pull range: ± 50 ppm (min) Low jitter: 1.0 ps typ.
<div>YSV311PJ</div> 	5.0*3.2*1.4 7.0*5.0*1.8	15~250MHz	1.8/ 2.5/ 3/ 3.3V CMOS	宽牵引范围: ± 200 ppm 超低抖动: 0.159 ps typ. @156.25 MHz Wide pull range: ± 200 ppm Ultra low jitter: 0.159 ps typ. @156.25 MHz


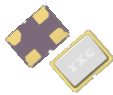
Programmable VCXO(Differential Output)

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
YSV220PR 	3.2*2.5*1.2 5.0*3.2*1.3 7.0*5.0*1.6	10~1500MHz	2.5/ 3.3V LVDS/ LVPECL	宽频率范围、快速交付 Wide frequency range available Fast delivery
YSV221PJ 	5.0*3.2*1.4 7.0*5.0*1.8	15~2100MHz	1.8/ 2.5/ 3.3V LVDS/ PECL/ HCML/ CML	宽牵引范围:± 200ppm 超低抖动:0.163 ps typ. @ 2000 MHz Wide pull range: ± 200 ppm Ultra low jitter: 0.163 ps typ. @ 2000 MHz









Programmable VCTCXO

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
YSV531PT 	3.2*2.5*1.6 7.0*5.0*2.5	10~250MHz	2.5/ 3.3V CMOS	宽频率范围、快速交付 高稳定性: : ±2.5 ppm (max.) Wide frequency range available/Fast delivery Superior frequency stability: ±2.5 ppm (max.)
YSV322PT 	3.2*2.5*1.6 7.0*5.0*2.5	10~1500MHz	2.5/ 3.3V LVDS/ PECL	宽频率范围、快速交付 高稳定性: : ±2.5 ppm (max.) Wide frequency range available/Fast delivery Superior frequency stability: ±2.5 ppm (max.)



Programmable SSXO (EMI reduction)

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
 YSO171PS 	2.5*2.0*0.7 3.2*2.5*1.0 5.0*3.2*1.2 7.0*5.0*1.4	1~200 MHz	1.8/ 2.5 / 3.3V CMOS	展频方式多样: 中心展频或向下展频 多种展频调制宽度: ±0.125%~±2% Spread types: center spread or down spread Spread percentage: ±0.125%~±2%

Automotive Grade Quartz Crystals

Series	Package Size [mm]	Frequency Range	Load Capacitance	Features
YSX1612SC 	1.6*1.2*0.4	24 ~ 60MHz	6 to 22 pF or specify	AEC-Q200 & IATF 16949
YSX211SC 	2.0*1.6*0.5	16 ~ 72MHz	6 to 22 pF or specify	AEC-Q200 & IATF 16949
YSX221SC 	2.5*2.0*0.6	12 ~ 80MHz	6 to 22 pF or specify	AEC-Q200 & IATF 16949
 YSX321SC 	3.2*2.5*0.7	8 ~ 66MHz	6 to 22 pF or specify	AEC-Q200 & IATF 16949
YSX530SC 	5.0*3.2*1.1	7.6 ~ 54MHz	6 to 22 pF or specify	AEC-Q200 & IATF 16949
YSX531SC 	5.0*3.2*0.9	7.6 ~ 54MHz	6 to 22 pF or specify	AEC-Q200 & IATF 16949
YSX532GC 	5.0*3.2*1.1	12 ~ 48MHz	6 to 22 pF or specify	AEC-Q200 & IATF 16949

Automotive Grade Quartz Oscillators

Series	Package Size [mm]	Frequency Range	Supply Voltage	Features
 YSO140TC 	1.6*1.2*0.8 2.0*1.6*0.8 2.5*2.0*0.8 3.2*2.5*1.0 5.0*3.2*1.2 7.0*5.0*1.4	1 ~ 54MHz, or specify	1.8 to 3.3V CMOS	AEC-Q200 & IATF 16949

Cooperative partner

合作伙伴



扬兴（深圳）总部

YANGXING HEADQUARTER

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SHENZHEN PRODUCTION BASE | R&D CENTER

📍 深圳市龙华区观澜银星科技园



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— BUILDING WORLD-CLASS TIMING SOLUTION —

