



深圳市晶科鑫实业有限公司

SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO.,LTD.



MAIN PRODUCTS:

QUARTZ CRYSTAL
CRYSTAL OSCILLATOR
VCXO
VCTCXO/TCXO
OCXO
REAL TIME CLOCK MODULE
SAW DEVICE
MONOLITHIC CRYSTAL FILTER



深圳市晶科鑫实业有限公司 SHENZHEN CRYSTAL TECHNOLOGY INDUSTRIAL CO.,LTD.

深圳市晶科鑫实业有限公司是一家创立于1989年频率控制元器件的生产型企业,拥有自主的品牌SJK,完整的产品系列结构,包括小型SMD贴片晶振、传统插件晶振、高端钟振(包括CXO、VCXO、TCXO、OCXO、VC-TCXO、LVDS/PECL差分输出钟振)、声表面波器件、晶体滤波器(MCF)等产品.

工厂实力雄厚,占地面积达3万平方米,拥有30条全自动生产线,通过ISO 9001、IATF16949、QC080000、ISO 14001等体系认证,产品全系列符合RoHS标准,SJK品牌晶振产品广泛应用于通讯、RFID、网络、汽车电子、消费类电子、工控、可穿戴、医疗电子、安防、智能家居、机器人等行业,能满足客户不同的需求,提供一站式晶振产品供应服务.

SJK品牌拥有多年的技术沉淀,以小型化、高精度等产品为优势,有国内最先进的自动化生产线,我司拥有强大的研发和售后技术团队,为您提供专业、及时、到位的服务,相信我们-----SJK是最好的选择.

欢迎垂询!

SJK founder in 1989, is a manufacturing-type enterprise of frequency control products. It owns independent brand SJK and complete product line including small SMD crystal oscillator, traditional DIP crystal and oscillator, high-end oscillator (including OSC, VCXO, TCXO, OCXO, VC-TCXO, LVDS/PECL output), SAW device, crystal filter (MCF) and other products.

The factory is fully reinforced, occupies the land of 30,000 square meters, with 30 full-automatic production lines, has passed ISO9001, ISO14001, TS16949, QC080000 and other system certifications. All products are conformed to RoHS standard. SJK products are widely used in communication, Network, automotive electronics, consumer electronics, industrial control, wearable device, medical electronics, security, smart home, robot and so on, which can satisfy consumers' different demands and provide one-step supply and service.

We SJK brand has 31 years of technology precipitation, with the advantages of miniaturization, high precision and other products, and has the most advanced automated production line in China. Our company has a strong R&D and after-sales technical team to provide you with professional, timely and in-place services. I believe that SJK is the best choice for you.

For more details about us, contact us today!

Professional Manufacturer Of **Crystals & Oscillators**

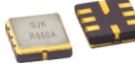
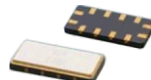
Tuning Fork Crystal Units



TYPE		PACKAGE	FREQ. RANGE	FEATURE
NEW 7K		1.6×1.0×0.50mm Seam sealed SMD Package	32.768kHz	•Ultra smaller size •SMD Watch Crystal
NEW 7R		2.0×1.2×0.60mm Seam sealed SMD Package	32.768kHz	•Ultra smaller size •SMD Watch Crsytal
HOT 7L		3.2×1.5×0.75mm Seam sealed SMD Package	32.768kHz	•Smaller size •SMD Watch Crystal
HOT 7M		7.0×1.5×1.40mm Plastic SMD Package	32.768kHz	•Small size •SMD Watch Crsytal
6LC		8.0×3.8×2.50mm Plastic SMD Package	32.768kHz (30~350kHz)	•SMD Watch Crystal
6K		2.0×6.0/8.0mm Through hole Package	32.768kHz (30~350kHz)	•Watch Crystal

SAW Resonator /Filter



TYPE		PACKAGE	FREQ. RANGE	FEATURE
NEW 5AW		2.5×2.0×0.70mm Seam Sealed SMD Package	315~915MHz	•Ultra small size •Low insert loss
NEW 6AW		3.2×2.5×0.80mm Seam Sealed SMD Package	315 /433.92MHz	•Ultra small size •Low insert loss
DCC6C		3.0×3.0×1.30mm Seam Sealed SMD Package	120~2675MHz	•Ultra small size •Low insert loss
DCC6		3.8×3.8×1.2mm Seam Sealed SMD Package	288~1385MHz	•Ultra small size •Low insert loss
QCC4A		5.0×3.5×1.40mm Seam Sealed SMD Package	288~915MHz	•Small size •Low insert loss
QCC8C		5.0×5.0×1.35mm Seam Sealed SMD Package	288~915MHz	•Small size •Low insert loss
QCC12		13.3×6.5×1.65mm Seam Sealed SMD Package	288~915MHz	•Small size •Low insert loss
TO-39		9.15×9.15×3.5mm TO-39 Package	288~915MHz	•Small size •Low insert loss
F-11		11.0×4.5×4.0mm F-11 Package	288~915MHz	•Small size •Low insert loss

Crystal Units



TYPE	PACKAGE	FREQ. RANGE	FEATURE
NEW 7Y	 1.6×1.2×0.35mm Seam sealed SMD Package	24~54MHz	•Ultra smaller size •High stability
HOT 7F	 2.0×1.6×0.50mm Seam sealed SMD Package	16~96MHz	•Ultra smaller size •High stability
HOT 7E	 2.5×2.0×0.55mm Seam sealed SMD Package	12~54MHz	•Smaller size •High stability
HOT 7U	 3.2×2.5×0.70mm Seam sealed SMD Package	8~64MHz	•High precision •High stability
7I	 5.0×3.2×0.90mm Seam sealed SMD Package	8~125MHz	•High precision •High stability
6G	 6.0×3.5×1.00mm Seam sealed SMD Package	8~100MHz	•Tight tolerance
6F	 7.0×5.0×1.00mm Seam sealed SMD Package	6~160MHz	•Tight tolerance
NEW 7Z	 2.5×2.0×0.75mm Glass sealed SMD Package	12~64MHz	•Ultra small size •Glass seam package
7V	 3.2×2.5×0.80mm Glass sealed SMD Package	8~64MHz	•Smaller size •Glass seam package
6I	 5.0×3.2×1.20mm Glass sealed SMD Package	8~54MHz	•Smaller size •Glass seam package
6A	 11.1×3.81×13.5mm HC-49U Package	1.843~150MHz	•High reliability •High stability
6B	 11.1×4.7×3.5/2.5mm HC-49S Package	3~100MHz	•Standard footprint •Low profile for close •PCB stacking
6C	 13.0×3.81×4.0/3.0mm HC-49SMD Package	3~100MHz	•Metal can SMD package
6D/6E	 7.8×2.4×7.8/6.0mm UM-1 /UM-5 Package	4~200MHz	•High frequency range
6Z	 2.0×6.0/3.0×8.0mm Cylinder Through hole Package	3.579~50MHz	•Small size •High shock tolerance

For more details, please contact us.

Crystal Oscillators(CMOS Output)



TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
0N 	1.6×1.2×0.50mm Seam sealed SMD Package	4~200MHz	CMOS	•Ultra smaller size •Low operation voltage •Low jitter •Low standby current
1N 	2.0×1.6×0.75mm Seam sealed SMD Package	1~200MHz	CMOS	•Ultra smaller size •Low operation voltage •Low jitter •Low standby current
2N 	2.5×2.0×0.80mm Seam sealed SMD Package	1~220MHz	CMOS	•Smaller size •Low operation voltage •Low jitter •Low standby current
3N 	3.2×2.5×1.0mm Seam sealed SMD Package	1~220MHz	CMOS	•Smaller size •Low operation voltage •Low jitter •Low phase noise.
7N 	5.0×3.2×1.20mm Seam sealed SMD Package	1~220MHz	CMOS	•Smaller size •Low operation voltage •Low jitter •Low current consumption
6N 	7.0×5.0×1.30mm Seam sealed SMD Package	1~220MHz	CMOS	•Small size •Low jitter •Low current consumption
6MF 	20.4×13.1×5.3mm Through hole Package	0.25~180MHz	CMOS	•All metal welded package •14-Pin full-size •Through hole package •Wide frequency range.
6MH 	12.9×12.9×5.3mm Through hole Package	0.25~180MHz	CMOS	•All metal welded package •8-Pin half-size •Through hole package •Wide frequency range.

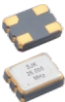
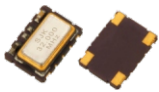
Crystal Oscillators(Differential Output)



TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
3J/3D 	3.2×2.5×0.95mm Seam sealed SMD Package	25~200MHz	LVPECL /LVDS	•Ultra smaller size •Fundamental solution •Low jitter •Low phase noise
3H 	3.2×2.5×0.95mm Seam sealed SMD Package	25~200MHz	HCSL	•Ultra smaller size •3rd overtone solution •Low jitter •Low phase noise
5J/5D 	5.0×3.2×1.20mm Seam sealed SMD Package	10MHz~1.5GHz	LVPECL/LVDS	•Small size •Fundamental solution •Low jitter •Low phase noise
5H 	5.0×3.2×1.20mm Seam sealed SMD Package	25~200MHz	HCSL	•Small size •3rd overtone solution •Low jitter •Low phase noise
7J/7B 	7.0×5.0×1.30mm Seam sealed SMD Package	10MHz~1.5GHz	LVPECL /LVDS	•Small size •Fundamental /3rd overtone solution •Low phase noise
7H 	7.0×5.0×1.30mm Seam sealed SMD Package	25~200MHz	HCSL	•Small size •Low jitter •Low phase noise
9J/9D 	14.0×9.0×5.4mm SMD Package	25~700MHz	LVPECL /LVDS	•Fundamental /3rd overtone solution •Up to 700MHz •Low jitter •Low phase noise

Temperature Compensated Crystal Oscillators/TCXO



TYPE		PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
7X		2.0×1.6×0.75mm Seam sealed SMD Package	26~52MHz	CMOS	•Ultra smaller size •Low power consumption •VCTCXO available
7Q		2.5×2.0×0.80mm Seam sealed SMD Package	13~52MHz	CMOS	•Ultra smaller size •Low power consumption •VCTCXO available
7T		3.2×2.5×1.0mm Seam sealed SMD Package	13~52MHz	CMOS	•Ultra smaller size •Low power consumption •VCTCXO available
5T		5.0×3.2×1.20mm Seam sealed SMD Package	5~52MHz	CMOS	•Smaller size •High precision •VCTCXO available
8T		7.0×5.0×2.0mm Seam sealed SMD Package	5~52MHz	CMOS	•Smaller size •High precision •VCTCXO available
6T		20.4×12.8×7.8mm Through hole Package	1.25~40MHz	CMOS	•Standard DIP 14 Pin •VCTCXO available •Low current option
9T		14.3×8.7×4.9mm FR-4 PCB SMD Package	5~40MHz	CMOS	•FR-4 PCB based •Low current option •VCTCXO available •High precision

Voltage Controlled Crystal Oscillator/VCXO



TYPE		PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
5S		5.0×3.2×1.20mm Seam sealed SMD Package	50~200MHz	CMOS	•Smaller size •Tight symmetry •Low jitter
5P/5V		5.0×3.2×1.20mm Seam sealed SMD Package	20~200MHz	LVPECL /LVDS	•Smaller size •Tight symmetry •Very low jitter •Differential logic
6S		7.0×5.0×1.60mm Seam sealed SMD Package	1.5~200MHz	CMOS	•Tight symmetry •Low jitter •Low phase noise
7P/6V		7.0×5.0×1.60mm Seam sealed SMD Package	10MHz ~1.5GHz	LVPECL /LVDS	•Wide pulling range •Differential logic •Up to 700MHz •Low jitter
9S/9P/9V		14.2×9.3×5.5mm FR-4 PCB SMD Package	1.5~200MHz 1.5~700MHz	CMOS LVPECL /LVDS	•FR-4 PCB based •Low jitter •Low phase noise •3-state available
6RH		12.6×12.6×5.0mm Through hole package	1~80MHz	CMOS	•Standard DIP 8 Pin •3-state available •Low phase noise
6RF		20.3×12.6×5.0mm Through hole package	1~80MHz	CMOS	•Standard DIP 14 Pin •3-state available •Low phase noise

For more details, please contact us.

Oven Controlled Crystal Oscillator/OCXO



TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
9X	 14.2×9.3×5.5mm Seam sealed SMD Package	5~40MHz	CMOS	•AT cut crystal •Low power consumption •Fast warm-up
5X	 25.4×22.1×14mm Seam sealed SMD Package	5~40MHz	CMOS / Sine Wave	•SC or AT cut crystal •High stability •Low phase noise •Fast warm-up
2X	 20.4×12.8×11mm Seam sealed SMD Package	5~40MHz	CMOS	•SC or AT cut crystal •Standard DIP 14 Pin •Low phase noise •Excellent stability
9M	 25.4×25.4×12.7mm Seam sealed SMD Package	5~100MHz	LVTTL / Sine Wave	•SC cut crystal •High stability •Low phase noise •Fast warm-up
6X	 36.3×27.2×12.7mm Seam sealed SMD Package	5~100MHz	LVTTL / Sine Wave	•SC cut crystal •High stability •Very low phase noise •Stratum 3E compliant

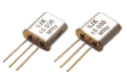
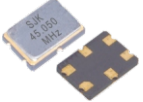
SMD Real Time Clock Oscillator/32.768kHz Oscillator



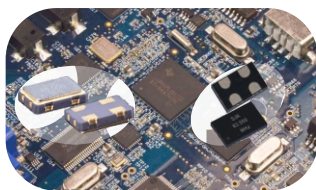
TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
1N	 2.0×1.6×0.75mm Seam sealed SMD Package	32.768kHz	CMOS	•Low power consumption •Low operating voltage •AT cut crystal •Ultra smaller size
2D	 2.5×2.0×0.95mm Seam sealed SMD Package	32.768kHz	CMOS	•Low power consumption •Low operating voltage •AT cut crystal •Ultra smaller size
3C	 3.2×2.5×1.0mm Seam sealed SMD Package	32.768kHz	CMOS	•Low power consumption •Low operating voltage •AT cut crystal •Ultra smaller size
5B	 5.0×3.2×1.20mm Seam sealed SMD Package	32.768kHz	CMOS	•Low power consumption •Low operating voltage •AT cut crystal •Smaller size
7A	 7.0×5.0×1.30mm Seam sealed SMD Package	32.768kHz	CMOS	•Low power consumption •Low operating voltage •AT cut crystal •Smaller size

Monolithic Crystal Filters/MCF

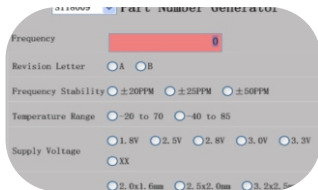


TYPE	PACKAGE	FREQ. RANGE	FEATURE
7DUT	 11×4.65×10.2mm HC-49T package	10.7~45MHz	•Low insertion loss •High selectivity •Excellent shock and vibration resistance
7DU1	 8×3.3×7.8mm UM-1 package	10.7~45MHz	•Low insertion loss •High selectivity •Excellent shock and vibration resistance
7DU5	 8×3.3×6.0mm UM-5 package	10.7~45MHz	•Low insertion loss •High selectivity •Excellent shock and vibration resistance
CF	 7.0×5.0×1.30mm Seam sealed SMD Package	21.4~73.35MHz	•Excellent shock and vibration resistance •SMD package for automatic pick •Low insertion loss

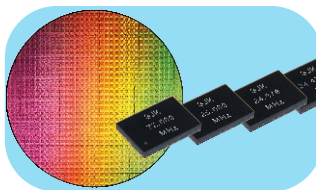
Special Introduced Product - MEMS Oscillator



MEMS Oscillator can be Pin-to-Pin quartz Oscillator



Programmable, Samples -48hrs fast delivery



High performance, Low power, More reliable, Lower cost



Ultra-smaller, Up to 80% space reduction

32.768 kHz MEMS Oscillators



TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
	1.5×0.8×0.6 mm MEMS Oscillator	32.768 kHz	CMOS	•Ultra-size: 1.5×0.8 mm. •Ultra-low power: <1.0μA •Supply voltage: 1.5~3.6V •Fast delivery
	2.0×1.2×0.55 mm MEMS Oscillator	32.768 kHz	CMOS	•Ultra-low power: <1.0μA •Ultra-size: 2.0×1.2 mm. •Supply voltage: 1.5~3.6V •Fast delivery

Low Power MEMS Oscillator

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
	2.0×1.6×0.75 mm 7.0×5.0×0.90 mm	1~137 MHz	LVC MOS / HCMOS	•Fast startup time of 5 ms. •Supply voltage: 1.8, 2.5, 3.3, 2.25~3.63V •Low power consumption: 3.5mA@1.8V •Faster delivery.

Differential MEMS Oscillator

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
	3.2×2.5×0.75 mm 7.0×5.0×0.90 mm	1~725 MHz	LVPECL / LVDS HCSL	•Package size: 3.2×2.5, 5.0×3.2, 7.0×5.0 mm. •Supply voltage: 2.5, 3.3, 2.25~3.63V •LVPECL / LVDS / HCSL output •Low phase jitter

High Temperature MEMS Oscillator

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
	2.0×1.6×0.75 mm 7.0×5.0×0.90 mm	1~137 MHz	LVC MOS / LV TTL	•Operating Temperature: -40~+125°C •Supply voltage: 1.8, 2.5, 3.3, 2.25~3.63V •Low power consumption: 3.5mA@1.8V •Faster delivery.

Spread Spectrum MEMS Oscillator

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
	2.0×1.6×0.75 mm 3.2×2.5×0.75 mm	1~141 MHz	LVC MOS / LV TTL	•Package size: 2.0×1.6, 2.5×2.0, 3.2×2.5 mm. •Up to 30 dB reduction •EMI reduction, Field Programmable •Spread Percentage (%): Center: ±0.125 to ±2.000, Down: -0.25 to -4.00

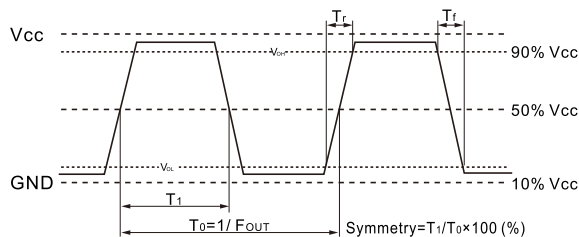
Ultra-Performance MEMS Oscillator

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
	2.5×2.5×0.55 mm 7.0×5.0×0.90 mm	1~220MHz	LVC MOS / LV TTL	•Package size: 2.5×2.0, 3.2×2.5, 5.0×3.2, 7.0×5.0 mm. •Frequency stability: ±10ppm •Phase jitter: 0.5ps •Supply voltage: 1.8V, 2.5V, 2.8V, 3.3V

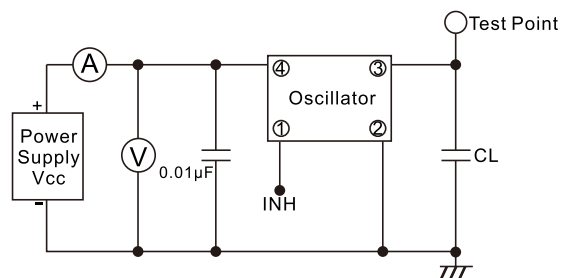
For more details, please contact us.

Output Type And Test Circuit

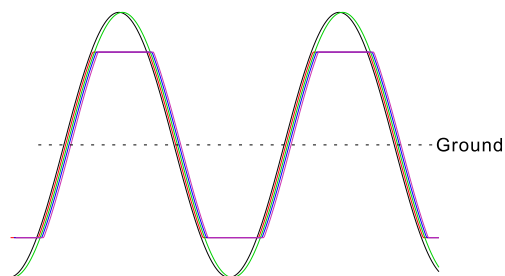
CMOS Output



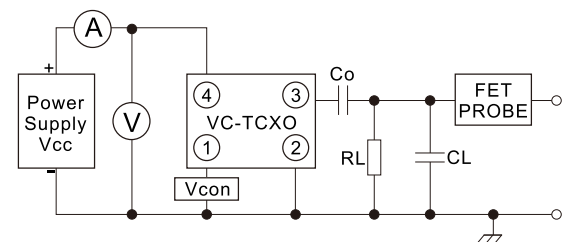
Measurement Circuit (CMOS Output)



Clipped Sine Wave Output



Measurement Circuit (Clipped Sine Wave Output)



Guide To Order (订购指南)

Company (公司名): _____

Name (联系人): _____ Date (日期): _____

Phone (电话): _____ Fax (传真): _____ E-mail (邮件): _____

@ Crystal Resonator (石英晶体谐振器)

Frequency (频率): _____ MHz / kHz Quantity (需求量): _____

Type (型号): _____ ☐7050 ☐6035 ☐5032 ☐3225 ☐2520 ☐2016 ☐1612 ☐1210 ☐49 SMD

☐49/S ☐49/U ☐UM-1/5 ☐1610 ☐2012 ☐3215 ☐MC146 ☐308C ☐206B

☐2×6 ☐3×8 ☐2520G ☐3225G ☐5032G ☐8045G

Vibration mode (振荡模式): ☐AT-Cut ☐BT-Cut ☐Fund (基频) ☐3rd Overtone (三次泛音) ☐5th Overtone (五次泛音)Load Capacitance (负载电容): _____ pF (负载) Resistance ESR (晶体阻抗): _____ Ω Max.Frequency Tolerance@25°C (调整频差): $\pm$ _____ PPM Frequency Stability (温度频差): $\pm$ _____ PPM

Operating Temperature Range (工作温度): _____ °C ~ + _____ °C

@ Crystal Oscillator (晶体振荡器)

Frequency (频率): _____ MHz / kHz Quantity (需求量): _____

Mode (类别): ☐OSC ☐VCXO ☐TCXO ☐OCXO ☐RTC OSC

Type (型号): _____ ☐7×5 ☐5×3.2 ☐3.2×2.5 ☐2.5×2.0 ☐2.0×1.6 ☐1.6×1.2 ☐14×9.0 ☐25×22 SMD Type

☐Full-Size ☐Half-Size ☐25×25 ☐36×27 DIP Type

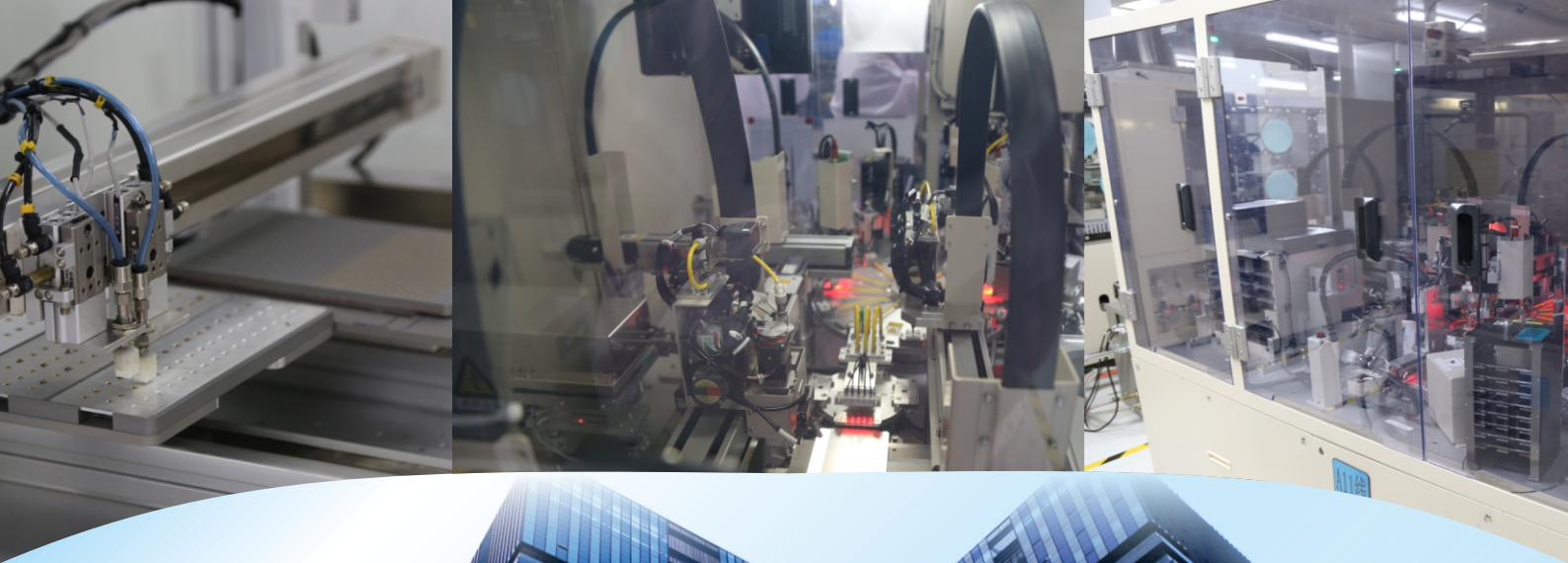
Output Type (输出模式): ☐CMOS ☐LVPECL ☐LVDS ☐HCSL ☐Clipped Sine Wave ☐Sine WaveFrequency Stability (频率稳定): $\pm$ _____ ppm/ppb ☐Tri-State Operating Temperature (工作温度): _____ °C ~ + _____ °C

Supply Voltage (工作电压): _____ Vdc Supply Current (电流): _____ mA

Rise /Fall Time (上升/下降时间): _____ ns Symmetry (占空比): _____ %

Control Voltage (控制电压): _____ V Linearity (线性度): _____ % Pullability (牵引力): _____ ppm

☎ Dial +86-755-88352809 or E-mail: sjk@q-crystal.com to contact our sales department.



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