

SHOULDER ELECTRONICS CORPORATION LIMITED

RoHS

Pb Free

QUARTZ
CRYSTAL

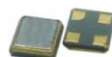
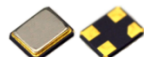
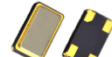
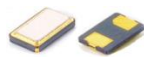
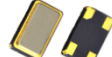
CRYSTAL
OSCILLATOR

(VC)TCXO

VCXO

OCXO

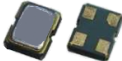
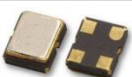
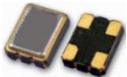
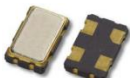
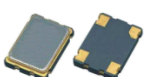
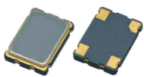
Crystal Units

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE
	SMD1612	SMD	1.6x1.2x0.35mm	24.000MHz~54.000MHz
	SMD2016	SMD	2.0x1.6x0.45mm	16.000MHz~60.000MHz
	SMD2520	SMD	2.5x2.0x0.45mm	12.000MHz~54.000MHz
	SMD3225	SMD	3.2x2.5x0.7mm	12.000MHz~60.000MHz
	SMD5032	SMD	5.0x3.2x0.8mm	8.000MHz~80.000MHz
	SMD2P5032	SMD	5.0x3.2x0.8mm	8.000MHz~80.000MHz
	SMD6035	SMD	6.0x3.5x1.0mm	8.000MHz~50.000MHz
	SMD2P6035	SMD	6.0x3.5x1.0mm	8.000MHz~50.000MHz
	SMD0705	SMD	7.0x5.0x1.0mm	6.000MHz~100.000MHz
	SMG2P8045	SMD	8.0x4.5x1.4mm	7.3728MHz~70.000MHz
	49U	DIP	10.8x4.5x13.2mm	1.500MHz~120.000MHz
	49S	DIP	10.8x4.5x3.5mm	3.000MHz~100.000MHz
	49S-SMD	SMD	12.5x4.5x4.0mm	3.000MHz~100.000MHz
	UM-1/UM-5	DIP	7.8x2.9x8.2mm/6.0mm	4.000MHz~200.000MHz
	2x6/3x8 3x9/3x10	DIP	2x6/3x8/3x9/3x10mm	3.579MHz~50.000MHz
	ZM309	SMD	12.5x4.6x3.8mm	3.579MHz~70.000MHz

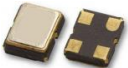
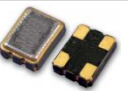
Tuning Fork Crystal Units

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE
	ZM1610	SMD	1.6x1.0x0.35mm	32.768kHz
	ZM2012	SMD	2.0x1.2x0.65mm	32.768kHz
	ZM315	SMD	3.2x1.5x0.65mm	32.768kHz
	ZM4115	SMD	4.1x1.5x0.75mm	32.768kHz
	ZM519	SMD	4.8x1.9x0.8mm	32.768kHz
	ZM146	SMD	6.9x1.4mm	32.768kHz
	ZM206	SMD	8.0x3.8mm	32.768kHz
	ZM405/ZM406	SMD	10.4x4.06x3.6mm	32.768kHz
	TF26/TF38	DIP	2.0x6.0/3.0x8.0mm	32.768kHz(25~307.2kHz)
	TFD206	SMD	2.0x6.0mm	32.768/40.0/75.0/76.8kHz

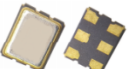
Crystal Oscillators(CMOS Output)

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE	OUTPUT
	SOC2016	SMD	2.0x1.6x0.8mm	1.5MHz~50MHz	CMOS
	SOC2520	SMD	2.5x2.0x0.85mm	32.768kHz~125MHz	CMOS
	SOC3	SMD	3.2x2.5x0.95mm	32.768kHz~125MHz	CMOS
	SOC5	SMD	5.0x3.2x1.55mm	13.7kHz~160MHz	CMOS
	SOC7	SMD	7.0x5.0x1.3mm	13.7kHz~166MHz	CMOS
	SOCM7	SMD	7.0x5.0x1.3mm	2.048MHz~200MHz	CMOS
	OSC8	DIP	12.9x12.9x5.3mm	1.0MHz~150MHz	CMOS
	OSC14	DIP	20.4x13.1x5.3mm	1.0MHz~150MHz	CMOS

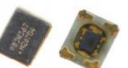
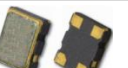
Programmable Crystal Oscillators

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE	OUTPUT
	SOP2520	SMD	2.5x2.0x0.85mm	2.048MHz~200MHz	CMOS
	SOP3225	SMD	3.2x2.5x0.95mm	2.048MHz~200MHz	CMOS

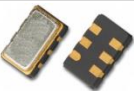
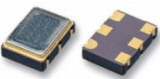
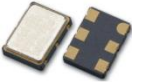
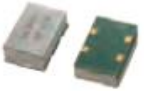
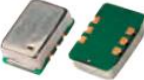
Crystal Oscillators(LVPECL/LVDS/HCSL Output)

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE	OUTPUT
	SOCL3	SMD	3.2x2.5x0.9mm	10MHz~250MHz 90MHz~125MHz	LVPECL/LVD S HCSL
	SOCL5	SMD	5.0x3.2x1.25mm	10MHz~320MHz 90MHz~125MHz	LVPECL/LVD S HCSL
	SOCLM5	SMD	5.0x3.2x1.25mm	10MHz~1.5GHz	LVPECL/LVD S
	SOCL7	SMD	7.0x5.0x1.45mm	10MHz~250MHz 90MHz~125MHz	LVPECL/LVD S HCSL
	SOCLM7	SMD	7.0x5.0x1.75mm	10MHz~1.5GHz	LVPECL/LVD S
	SOCLU7 (Ultra Low Jitter)	SMD	7.0x5.0x1.45mm	70MHz~170MHz	LVPECL

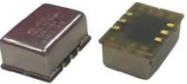
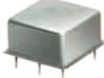
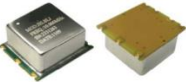
Voltage Controlled Temperature Compensated Crystal Oscillators

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE	OUTPUT
	(VC)TCXO2016	SMD	2.0x1.6x0.8mm	10MHz~52MHz	Clipped Sine
	(VC)TCXO2520	SMD	2.5x2.0x0.7mm	10MHz~52MHz	Clipped Sine
	(VC)TCXO2520	SMD	2.5x2.0x0.85mm	9.5MHz~60MHz	CMOS
	(VC)TCXO3225	SMD	3.2x2.5x0.9mm	10MHz~52MHz	Clipped Sine
	(VC)TCXO3225	SMD	3.2x2.5x0.95mm	9.5MHz~60MHz	CMOS
	(VC)TCXO5032	SMD	5.2x3.2x1.55mm	10MHz~52MHz	CMOS / Clipped Sine
	(VC)TCXOS7050	SMD	7.0x5.0x1.9mm	5MHz~40MHz	CMOS / Clipped Sine
	(VC)TCXO7050	SMD	7.0x5.0x1.9mm	5MHz~52MHz	CMOS / Clipped Sine
	(VC)TCXO1509	SMD	14.3x8.7x4.9mm	5MHz~40MHz	CMOS / Clipped Sine
	(VC)TCXO2113	DIP	20.4x12.8x7.8mm	1.25MHz~52MHz	CMOS / Clipped Sine

Voltage Controlled Crystal Oscillators

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE	OUTPUT
	VCXO5032	SMD	5.0x3.2x1.25mm	1.5MHz~170MHz	CMOS
				30MHz~250MHz	LVPECL/LVDS
	VCXO7050	SMD	7.0x5.0x1.75mm	1.5MHz~170MHz	CMOS
				1.5MHz~200MHz	LVPECL/LVDS
	VCXOM7050	SMD	7.0x5.0x1.75mm	10MHz~250MHz	CMOS
				10MHz~1.5GHz	LVPECL/LVDS
	VCXOL1409	SMD	14.0x9.0x5.5mm	50MHz~125MHz	Sine Wave
	VCXOK1510	SMD	14.2x9.3x5.4mm	30MHz~250MHz	LVPECL/LVDS

Oven Controlled Crystal Oscillators

PHOTO	MODEL	TYPE	PACKAGE	FERQ.RANGE	OUTPUT
	OCXO1510	SMD	14.3x9.3x6.5mm	10MHz~40MHz	CMOS
	OCXO2113	DIP	20.3x12.7x11.0mm	5MHz~40MHz	CMOS
	OCXO2626	DIP	25.4x25.4x12.7mm	5MHz~100MHz	LVTTTL / Sine Wave
	OCXO2623	SMD	25.4x22.1x11.0mm	5MHz~100MHz	CMOS / Sine Wave
	OCXO3728	DIP	36.3x27.2x12.7mm	5MHz~100MHz	LVTTTL / Sine Wave
	OCXO2121	DIP	20.6x20.6x11.0mm	5MHz~40MHz	CMOS