

TCXO

Product	SX1.T	SX2.T	SX3.T	SX5.T
Dimensions (mm)	2.0 x 1.6 x 0.7	2.5 x 2.0 x 0.9	3.2 x 2.5 x 1.3	5.0 x 3.2 x 1.2
Frequency Range	16.0 – 38.4 MHz	4.0 – 54.0 MHz	4.0 – 54.0 MHz	4.0 – 800.0 MHz
Output Logic	Clipped Sine	Clipped Sine - HCMOS	Clipped Sine - HCMOS	Clipped Sine - HCMOS
Temperature Stability	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm

Product	SX5.TG	SX7.T	SX7.TG	SP4.T
Dimensions (mm)	5.0 x 3.2 x 1.65	7.0 x 5.0 x 1.8	7.0 x 5.0 x 2.0	11.4 x 9.6 x 2.5
Frequency Range	10.0 – 40.0 MHz	4.0 – 800.0 MHz	5.0 – 40.0 MHz	1.0 – 125.0 MHz
Output Logic	Clipped Sine - HCMOS	Clipped Sine - HCMOS LVPECL - LVDS	Clipped Sine - HCMOS	Clipped Sine - HCMOS
Temperature Stability	± 0.1 ppm	± 0.5 ppm	± 0.1 ppm	± 0.5 ppm

Product	SP2.T	C18.T	A18.T	DL.T
Dimensions (mm)	14.3 x 8.7 x 5.5	18.3 x 11.7 x 4.5	18.3 x 11.7 x 4.5	20.7 x 13.1 x 7.48
Frequency Range	1.0 – 200.0 MHz	1.0 – 125.0 MHz	1.0 – 125.0 MHz	1.0 – 125.0 MHz
Output Logic	Clipped Sine - HCMOS	Clipped Sine - HCMOS	Clipped Sine - HCMOS	Clipped Sine - HCMOS
Temperature Stability	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm

32.768 kHz TCXO

Product	SX7KTM
Dimensions (mm)	7.0 x 5.0 x 2.3
Frequency Range	32.768 kHz
Output Logic	HCMOS
Temperature Stability	± 0.5 ppm

32.768 kHz VCTCXO

Product	SX7KVTM
Dimensions (mm)	7.0 x 5.0 x 2.3
Frequency Range	32.768 kHz
Output Logic	HCMOS
Temperature Stability	± 0.5 ppm

VCTCXO

Product	SX1.VT	SX2.VT	SX3.VT	SX5.VT
Dimensions (mm)	2.0 x 1.6 x 0.7	2.5 x 2.0 x 0.9	3.2 x 2.5 x 1.3	5.0 x 3.2 x 1.2
Frequency Range	16.0 – 38.4 MHz	4.0 – 54.0 MHz	4.0 – 54.0 MHz	4.0 – 800.0 MHz
Output Logic	Clipped Sine	Clipped Sine - HCMOS	Clipped Sine - HCMOS	Clipped Sine - HCMOS
Temperature Stability	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm

Product	SX5.VTG	SX7.VT	SX7.VTG	SP4.VT
Dimensions (mm)	5.0 x 3.2 x 1.65	7.0 x 5.0 x 1.8	7.0 x 5.0 x 2.0	11.4 x 9.6 x 2.5
Frequency Range	10.0 – 40.0 MHz	4.0 – 800.0 MHz	5.0 – 40.0 MHz	1.0 – 125.0 MHz
Output Logic	Clipped Sine - HCMOS	Clipped Sine - HCMOS LVPECL - LVDS	Clipped Sine - HCMOS	Clipped Sine - HCMOS
Temperature Stability	± 0.1 ppm	± 0.5 ppm	± 0.1 ppm	± 0.5 ppm

Product	SP2.VT	C18.VT	A18.VT	DL.VT
Dimensions (mm)	14.3 x 8.7 x 5.5	18.3 x 11.7 x 4.5	18.3 x 11.7 x 4.5	20.7 x 13.1 x 7.48
Frequency Range	1.0 – 200.0 MHz	1.0 – 125.0 MHz	1.0 – 125.0 MHz	1.0 – 125.0 MHz
Output Logic	Clipped Sine - HCMOS	Clipped Sine - HCMOS	Clipped Sine - HCMOS	Clipped Sine - HCMOS
Temperature Stability	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm

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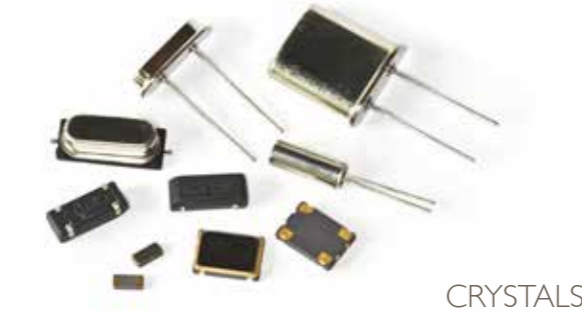


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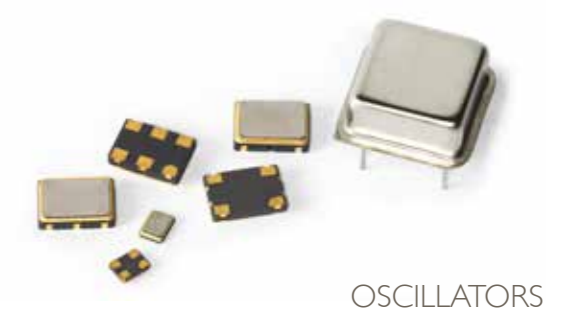
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Frequency Technology

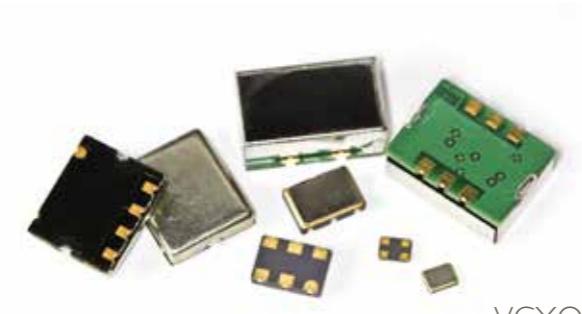
PRODUCT OVERVIEW



CRYSTALS



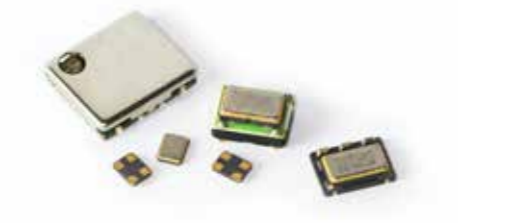
OSCILLATORS



VCXO



TCXO



VCTCXO

SMD CRYSTALS

Product	X16	X20	X25	X32
Dimensions (mm)	1.6 x 1.2 x 0.4	2.0 x 1.6 x 0.5	2.5 x 2.0 x 0.65	3.2 x 2.5 x 0.75
Frequency Range	26 – 54 MHz	20 – 80 MHz	12 – 80 MHz	12 – 60 MHz
Product	X53	X532	X63	X632
Dimensions (mm)	5.0 x 3.2 x 0.90	5.0 x 3.2 x 1.2	6.0 x 3.5 x 1.1	6.0 x 3.5 x 1.1
Frequency Range	8 – 125 MHz	8 – 80 MHz	8 – 125 MHz	8 – 50 MHz
Product	X75	49SM	49SX3	49MJ
Dimensions (mm)	7.0 x 5.0 x 1.2	11.4 x 4.7 x 4.2	12.5 x 4.85 x 5.0	13.5 x 11.0 x 5.3
Frequency Range	6 – 160 MHz	3.2 – 100 MHz	3.2 – 70 MHz	1.8432 – 200 MHz
Product	UM1MJ	UM5MJ		
Dimensions (mm)	8.0 x 7.8 x 3.5	6.0 x 7.8 x 3.5		
Frequency Range	4 – 200 MHz	10 – 200 MHz		

THRU-HOLE CRYSTALS

Product	TB39	49U	50U	49S
Dimensions (mm)	3.0 x 9.0 cylindrical	11.0 x 4.7 x 13.5	11.0 x 4.7 x 13.5	11.0 x 4.7 x 3.5
Frequency Range	3.5 – 70 MHz	1.8432 – 200 MHz	1.8432 – 200 MHz	3.2 – 100 MHz
Product	UMI	UM5	48U	51U
Dimensions (mm)	7.8 x 3.3 x 8.0	7.8 x 3.3 x 6.0	19.4 x 8.95 x 19.8	19.4 x 8.95 x 19.8
Frequency Range	4 – 200 MHz	10 – 200 MHz	0.8 – 200 MHz	0.8 – 200 MHz

kHz CRYSTALS

Product	X21	X31	X130C	SX99
Dimensions (mm)	2.0 x 1.2 x 0.6	3.2 x 1.5 x 0.9	6.9 x 1.4 x 1.3	8.0 x 3.8 x 2.5
Frequency Range	32.768 kHz	32.768 kHz	32.768 kHz	32.768 kHz
Product	TB26SMD	SX206	TB26	TB38
Dimensions (mm)	6.0 x 2.0 cylindrical	6.0 x 2.0 cylindrical	6.0 x 2.0 cylindrical	8.0 x 3.0 cylindrical
Frequency Range	32.768 kHz	32.768 kHz	32.768 kHz	32.768 kHz

OSCILLATORS

Product	SX1.	SX2.	SX3.	SX3SS
Dimensions (mm)	2.0 x 1.6 x 0.8	2.5 x 2.0 x 0.9	3.2 x 2.5 x 1.2	3.2 x 2.5 x 1.1
Frequency Range	1.0 – 80.0 MHz	1.0 – 133.0 MHz	1.0 – 200.0 MHz	12.5 – 42.0 MHz
Output Logic	HCMOS - TTL	HCMOS - TTL	HCMOS - TTL - LVPECL - LVDS - HCSL	HCMOS Low EMI
Product	SX5.	SX5SS	SX7.	SX7SS
Dimensions (mm)	5.0 x 3.2 x 1.3	5.0 x 3.2 x 1.3	7.0 x 5.0 x 1.5	7.0 x 5.0 x 1.8
Frequency Range	1.0 – 1450.0 MHz	6.0 – 160.0 MHz	0.5 – 1450.0 MHz	3.5 – 220.0 MHz
Output Logic	HCMOS - TTL - LVPECL - LVDS - HCSL - True Sine	HCMOS Low EMI	HCMOS - TTL - LVPECL - LVDS - HCSL - True Sine	HCMOS Low EMI
Product	SP2.	SP5.	DLH.	DL.
Dimensions (mm)	14.3 x 8.7 x 5.5	11.4 x 9.6 x 2.5	12.7x12.7x5.08	20.7x13.1x5.08
Frequency Range	0.5 – 800.0 MHz	0.5 – 800.0 MHz	0.5 – 800.0 MHz	0.5 – 800.0 MHz
Output Logic	HCMOS - TTL - LVPECL - LVDS - HCSL	HCMOS - TTL - LVPECL - LVDS - HCSL - True Sine	HCMOS - TTL - LVPECL - LVDS - HCSL	HCMOS - TTL - LVPECL - LVDS - HCSL - True Sine

PROGRAMMABLE OSCILLATORS

Product	SX2P	SX3P	SX5P	SX7P
Dimensions (mm)	2.5 x 2.0 x 0.9	3.2 x 2.5 x 1.2	5.0 x 3.2 x 1.3	7.0 x 5.0 x 1.5
Frequency Range	1.0 – 200.0 MHz	1.0 – 200.0 MHz	1.0 – 200.0 MHz	1.0 – 200.0 MHz
Output Logic	HCMOS - TTL	HCMOS - TTL	HCMOS - TTL	HCMOS - TTL

32.768 kHz OSCILLATORS

Product	SX2K	SX3K	SX5K	SX7K
Dimensions (mm)	2.5 x 2.0 x 0.9	3.2 x 2.5 x 1.2	5.0 x 3.2 x 1.3	7.0 x 5.0 x 1.5
Frequency Range	32.768 kHz	32.768 kHz	32.768 kHz	32.768 kHz
Output Logic	HCMOS	HCMOS	HCMOS	HCMOS

VCXO

Product	SX2.V	SX3.V	SX5.V	SX7.V
Dimensions (mm)	2.5 x 2.0 x 0.9	3.2 x 2.5 x 1.2	5.0 x 3.2 x 1.3	7.0 x 5.0 x 1.5
Frequency Range	1.0 – 30.0 MHz	1.0 – 54.0 MHz	1.0 – 54.0 MHz	1.0 – 800 MHz
Output Logic	HCMOS - TTL	HCMOS - TTL	HCMOS - TTL - True Sine	HCMOS - TTL - LVPECL - LVDS - HCSL - True Sine
Product	SP2.V	SP5.V	DLH.V	DL.V
Dimensions (mm)	14.3 x 8.7 x 5.5	11.4x9.6x2.5	12.7x12.7x5.08	20.7x13.1x5.08
Frequency Range	0.75 – 800.0 MHz	1.0 – 800 MHz	1.0 - 125 MHz	1.0 - 800 MHz
Output Logic	HCMOS - TTL - LVPECL - LVDS - HCSL	HCMOS - TTL - LVPECL - LVDS - HCSL - True Sine	HCMOS - TTL - LVPECL - LVDS - HCSL	HCMOS - TTL - LVPECL - LVDS - HCSL - True Sine