

The logo features the letters 'HMI' in a large, white, sans-serif font. A dark blue sine wave is superimposed over the letters, starting from the left, passing through the 'H' and 'M', and ending on the right. The background is a deep blue with a faint grid of rounded squares and scattered light blue bokeh spots.

HMI

Frequency Technology

www.HMinternational.be

CRYSTALS

OSCILLATORS

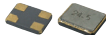
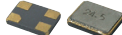
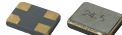
MEMS OSCILLATORS

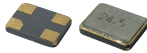
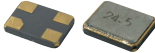
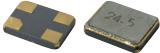
VCXO

TCXO

VCTCXO

SMD CRYSTALS

				
Product	X12	X16	X20	X25
Dimensions (mm)	1.2x1.0x0.35	1.6x1.2x0.35	2.0x1.6x0.50	2.5x2.0x0.60
Frequency Range	36 - 80 MHz	24 - 60 MHz	16 - 72 MHz	12 - 80 MHz

				
Product	X32	X53	X532	X63
Dimensions (mm)	3.2x2.5x0.70	5.0x3.2x0.90	5.0x3.2x1.20	6.0x3.5x1.10
Frequency Range	8 - 200 MHz	8 - 150 MHz	8 - 80 MHz	7 - 200 MHz

				
Product	X632	X75	49SM	49SX3
Dimensions (mm)	6.0x3.5x1.10	7.0x5.0x1.10	11.4x4.7x4.20	12.9x4.5x4.80
Frequency Range	8 - 50 MHz	6 - 160 MHz	3.2 - 70 MHz	3.2 - 70 MHz

				
Product	49MJ	UM1MJ	UM5MJ	
Dimensions (mm)	13.5x11.0x5.30	8.0x7.8x3.50	6.0x7.8x3.50	
Frequency Range	1.8432 - 200 MHz	4 - 200 MHz	10 - 200 MHz	

THRU-HOLE CRYSTALS

				
Product	TB39	49U	50U	49S
Dimensions (mm)	3.0x9.0 cylindrical	11.0x4.7x13.50	11.0x4.7x13.50	11.0x4.7x3.50
Frequency Range	3.5 - 70 MHz	1.0 - 200 MHz	1.0 - 200 MHz	3.2 - 70 MHz

				
Product	UMI	UM5	48U	51U
Dimensions (mm)	7.8x3.3x8.00	7.8x3.3x6.00	19.4x8.95x19.80	19.4x8.95x19.80
Frequency Range	4 - 200 MHz	10 - 200 MHz	0.8 - 200 MHz	0.8 - 200 MHz

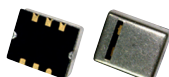
OSCILLATORS



Product	SX1.	SX2.	SX3.	SX3SS
Dimensions (mm)	2.0x1.6x0.80	2.5x2.0x0.90	3.2x2.5x1.00	3.2x2.5x1.10
Frequency Range	1.0 - 80.0 MHz	1.0 - 175.0 MHz	1.0 - 1450.0 MHz	12.5 - 42.0 MHz
Output Logic	HCMOS-TTL	HCMOS-TTL- LVPECL-LVDS-HCSL	HCMOS-TTL- LVPECL-LVDS-HCSL	HCMOS Low EMI



Product	SX5.	SX5SS	SX7.	SX7SS
Dimensions (mm)	5.0x3.2x1.30	5.0x3.2x1.30	7.0x5.0x1.50	7.0x5.0x1.80
Frequency Range	1.0 - 2100.0 MHz	6.0 - 160.0 MHz	0.5 - 2100.0 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)	14.3x8.7x5.50	11.4x9.6x2.50	12.7x12.7x5.08	20.7x12.7x5.08
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)	2.5x2.0x0.90	3.2x2.5x1.20	5.0x3.2x1.30	7.0x5.0x1.50
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

KHZ CRYSTALS

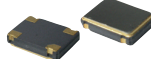


Product	X15	X21	X31	X130C
Dimensions (mm)	1.6x1.0x0.50	2.0x1.2x0.60	3.2x1.5x0.80	6.9x1.4x1.30
Frequency Range	32.768 kHz	32.768 kHz	32.768 kHz	32.768 kHz



Product	SX99	TB26SMD	TB26	TB38
Dimensions (mm)	8.0x3.8x2.50	6.0x2.0 cylindrical	6.0x2.0 cylindrical	8.0x3.0 cylindrical
Frequency Range	32.768 kHz	32.768 kHz	32.768 kHz	32.768 kHz

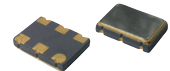
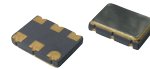
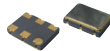
32.768 KHZ OSCILLATORS



Product	SX2K	SX3K	SX5K	SX7K
Dimensions (mm)	2.5x2.0x0.90	3.2x2.5x1.20	5.0x3.2x1.30	7.0x5.0x1.50
Frequency Range	32.768 kHz	32.768 kHz	32.768 kHz	32.768 kHz
Output Logic	HCMOS	HCMOS	HCMOS	HCMOS

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VCXO



Product	SX2.V	SX3.V	SX5.V	SX7.V
Dimensions (mm)	2.5x2.0x0.90	3.2x2.5x1.20	5.0x3.2x1.30	7.0x5.0x1.50
Frequency Range	1.0 - 100.0 MHz	1.0 - 1450.0 MHz	1.0 - 2100.0 MHz	1.0 - 2100.0 MHz
Output Logic	HCMOS-TTL	HCMOS-TTL-LVPECL-LVDS-HCSL	HCMOS-TTL-LVPECL-LVDS-HCSL-True Sine	HCMOS-TTL-LVPECL-LVDS-HCSL-True Sine



Product	SP2.V	SP5.V	DLH.V	DL.V
Dimensions (mm)	14.3x8.7x5.50	11.4x9.6x2.50	12.7x12.7x5.08	20.7x12.7x5.08
Frequency Range	0.75 - 800.0 MHz	1.0 - 800.0 MHz	1.0 - 125.0 MHz	1.0 - 800.0 MHz
Output Logic	HCMOS-TTL-LVPECL-LVDS-HCSL	HCMOS-TTL-LVPECL-LVDS-HCSL-True Sine	HCMOS-TTL-LVPECL-LVDS-HCSL-True Sine	HCMOS-TTL-LVPECL-LVDS-HCSL-True Sine

32.768 KHZ VC-TCXO

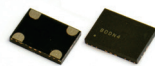


Product	SX3KTF	SX7K(V)TM
Dimensions (mm)	3.2x2.5x1.30	7.0x5.0x2.30
Frequency Range	32.768 kHz	32.768 kHz
Output Logic	HCMOS	HCMOS
Temperature Stability	± 2.0 ppm	± 0.5 ppm

MEMS



Product	MX1C	MX2C	MX3C	MX5C
Dimensions (mm)	2.0x1.6x0.75	2.5x2.0x0.75	3.2x2.5x0.75	5.0x3.2x0.75
Frequency Range	1.0 - 137.0 MHz	1.0 - 137.0 MHz	1.0 - 137.0 MHz	1.0 - 137.0 MHz
Output Logic	HCMOS	HCMOS	HCMOS	HCMOS



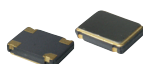
Product	MX7C
Dimensions (mm)	7.0x5.0x0.90
Frequency Range	1.0 - 137.0 MHz
Output Logic	HCMOS

**FOR MEMS VCXO, MEMS TCXO, MEMS LOW EMI,
MEMS 32.768 kHzXO: PLEASE CONSULT FACTORY**

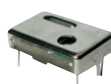
TCXO - VCTCXO



Product	SXAS.(V)T	SXIS.(V)T	SX2.(V)T	SX3.(V)T
Dimensions (mm)	1.6x1.2x0.60	2.0x1.6x0.70	2.5x2.0x0.90	3.2x2.5x1.00
Frequency Range	19.2 - 52.0 MHz	10.0 - 52.0 MHz	4.0 - 60.0 MHz	4.0 - 1450.0 MHz
Output Logic	Clipped Sine	Clipped Sine	Clipped Sine-HCMOS	Clipped Sine-HCMOS-LVPECL-LVDS
Temperature Stability	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm



Product	SX5.(V)T	SX7.(V)T	SP4.(V)T	SP2.(V)T
Dimensions (mm)	5.0x3.2x1.20	7.0x5.0x1.80	11.4x9.6x2.50	14.3x8.7x5.50
Frequency Range	4.0 - 2100 MHz	4.0 - 2100 MHz	1.0 - 125.0 MHz	1.0 - 200.0 MHz
Output Logic	Clipped Sine - HCMOS-LVPECL-LVDS-HCSL	Clipped Sine - HCMOS-LVPECL-LVDS-HCSL	Clipped Sine - HCMOS	Clipped Sine - HCMOS
Temperature Stability	± 0.05 ppm	± 0.05 ppm	± 0.5 ppm	± 0.5 ppm



Product	CI8.(V)T	AI8.(V)T	DL.(V)T
Dimensions (mm)	18.3x11.7x4.50	18.3x11.7x4.50	20.7x13.1x7.48
Frequency Range	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
Temperature Stability	± 0.5 ppm	± 0.5 ppm	± 0.5 ppm

HMI
Frequency Technology

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