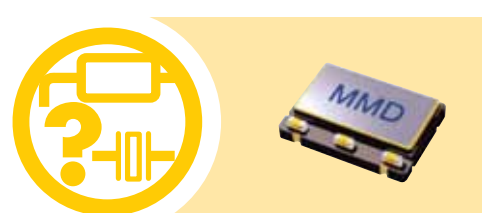
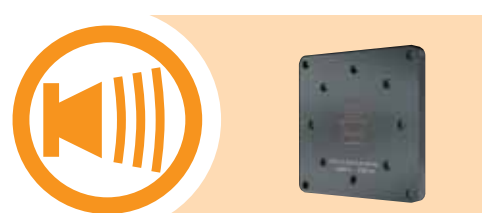
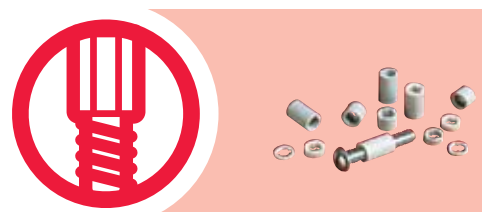















**Quarze,
Oszilatoren
VCXO, TCXO, OCXO
Programmierbare Oszilatoren**



**Ihre Aufgaben
unsere Lösungen**



Quartz Crystals (MHz)

PREVIEW	SERIES	PACKAGE	FREQUENCY RANGE	ROHS COMPLIANT
	X	2.0x2.5mm Ceramic (4 pad)	16.000MHz to 60.000MHz	Yes
	T	2.5x3.2mm Ceramic (4 pad)	16.000MHz to 50.000MHz	Yes
	S	2.5x4mm Ceramic (4 pad)	12.000MHz to 50.000MHz	Yes
	V	3.2x5mm Ceramic (2 pad)	12.000MHz to 54.000MHz	Yes
	J	3.2x5mm Ceramic (4 pad)	14.440MHz to 40.000MHz	Yes
	I	3.5x6mm Ceramic (2 pad)	10.000MHz to 80.000MHz	Yes
	H	3.5x6mm Ceramic (4 pad)	8.000MHz to 100.000MHz	Yes
	P	4.5x8mm Ceramic (2 pad)	7.500MHz to 69.000MHz	Yes
	G	5x7mm Ceramic (4 pad)	8.000MHz to 80.000MHz	Yes
	D	HC-49/US SMD (2 pad)	3.200MHz to 80.000MHz	Available
	F	HC-49/US Short SMD (2 pad)	3.200MHz to 80.000MHz	Available
	B	HC-49/US	3.200MHz to 91.730MHz	Available
	E	HC-49/US Short	3.200MHz to 91.730MHz	Available
	A	HC-49/U	1.8432MHz to 200.000MHz	Available
	U	UM-1	7.000MHz to 200.000MHz	Available
	TF310	3x10mm Tuning Fork	3.579545MHz to 65.000MHz	Available

Quartz Crystals (k Hz)

PREVIEW	SERIES	PACKAGE	FREQUENCY RANGE	ROHS COMPLIANT
	WC146SM	1.5x7 Plastic (1.4mm high)	32.768KHz	Yes
	WC26SM	2x6mm Gull Wing with Jacket	32.768KHz	Available
	WC26G	2x6mm Gull Wing without Jacket	32.768KHz	Available
	WC315	1.5x3mm Ceramic (2 Pad)	32.768KHz	Yes
	WC156SM	3.3x7.1mm Plastic (4 Pad)	32.768KHz	Yes
	WC5MC	3.8x8mm Plastic (4 pad)	32.768KHz	Yes
	WC415	1.5x4mm Ceramic (2 Pad)	32.768KHz	Yes
	WC519	2 x 5mm Ceramic (2 Pad)	32.768KHz	Yes
	WC155	1.5x5mm Tuning Fork	32.768KHz	Available
	WC26	2x6mm Tuning Fork	32.768KHz	Available
	WC38	3x8mm Tuning Fork	32.768KHz	Available
	TF155	1.5x5mm Tuning Fork	32.000KHz to 120.000KHz	Available
	TF206	2x6mm Tuning Fork	32.000KHz to 100.000KHz	Available
	TF308	3x8mm Tuning Fork	29.000KHz to 40.000KHz	Available



Crystal Oscillators

PREVIEW	SERIES	PACKAGE	SUPPLY VOLTAGE	OUTPUT TYPE	FREQUENCY RANGE	ROHS COMPLIANT
	MXH	2x2.5mm Ceramic (4 Pad)	1.8V, 2.5V, 3.3V	HCMOS	1.544MHz to 80.000MHz	Yes
	MSH	2.5x3.2mm Ceramic (4 Pad)	1.8V, 2.5V, 3.3V	HCMOS	1.544MHz to 110.000MHz	Yes
	MTH	3.2x5mm Ceramic (4 Pad)	1.8V, 2.5V, 3.3V, 5V	HCMOS	1.544MHz to 133.000MHz	Yes
	MIH	5X7mm Ceramic (4 Pad)	1.8V, 2.5V, 3.3V, 5V	HCMOS	1.500MHz to 133.000MHz	Yes
	MIM	5X7mm Ceramic (4 Pad)	3.3V, 5V	HCMOS	1.000MHz to 156.250MHz	Yes
	MIHK	5X7mm Ceramic (4 Pad)	2.5V, 3.3V	HCMOS	32.768kHz	Yes
	MIL	5x7mm Ceramic (6 pad)	2.5V, 3.3V	LVPECL	19.440MHz to 1.000GHz	Yes
	MIV	5x7mm Ceramic (6 pad)	2.5V, 3.3V	LVDS	19.440MHz to 1.000GHz	Yes
	MLH	Ceramic J-Lead (4 Pin)	1.8V, 2.5V, 3.3V, 5V	HCMOS	1.000MHz to 70.000MHz	Yes
	MBH	8 Pin DIP	1.8V, 2.5V, 3.3V, 5V	HCMOS	20.000kHz to 220.000MHz	Available
	MAH	14 Pin DIP	1.8V, 2.5V, 3.3V, 5V	HCMOS	5.000kHz to 200.000MHz	Available
	MAC	14 Pin DIP	5V	HCMOS	32.768KHz	Available
	MAL	14 Pin DIP	2.5V, 3.3V	LVPECL	12.500MHz to 800.000MHz	Available
	MAV	14 Pin DIP	2.5V, 3.3V	LVDS	12.500MHz to 800.000MHz	Available
	SSI	3.2x5mm Ceramic (4 Pad)	2.5V, 3.3V	HCMOS (Spread Spectrum)	13.000MHz to 160.000MHz	Yes
	SST	5X7mm Ceramic (4 Pad)	2.5V, 3.3V	HCMOS (Spread Spectrum)	13.000MHz to 160.000MHz	Yes
	MUL	3.2x5mm Ceramic (6 Pad)	2.5V, 3.3V	LVPECL	74.250MHz to 161.1238MHz	Yes
	MUV	3.2x5mm Ceramic (6 Pad)	2.5V, 3.3V	LVDS	74.250MHz to 161.1238MHz	Yes

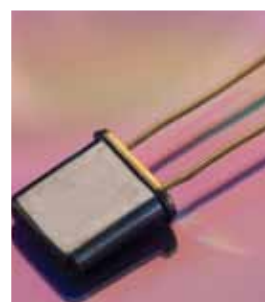
Voltage Controlled Crystal Oscillators (VCXO)

PREVIEW	SERIES	PACKAGE	SUPPLY VOLTAGE	OUTPUT LOGIC	FREQUENCY RANGE	ROHS COMPLIANT
	MVUH	3.2x5mm Ceramic (6 Pad)	2.5V, 3.3V	HCMOS	1.544MHz to 77.760MHz	Yes
	MVIH	5x7mm Ceramic (6 pad)	3.3V, 5V	HCMOS	1.544MHz to 180.000MHz	Yes
	MVIL	5x7mm Ceramic (6 pad)	2.5V, 3.3V, 5V	LVPECL	70.000MHz to 800.000MHz	Yes
	MVIP	5x7mm Ceramic (6 pad)	5V	PECL	70.000MHz to 800.000MHz	Yes
	MVKH	10.2x14.7mm FR4 SMD (4 Pad)	3.3V, 5V	HCMOS	1.544MHz to 180.000MHz	Available
	MVBH	8 Pin DIP	3.3V, 5V	HCMOS	1.000MHz to 220.000MHz	Available
	MVAH	14 Pin DIP	2.5V, 3.3V, 5V	HCMOS	1.000MHz to 220.000MHz	Available
	MVAL	14 Pin DIP	2.5V, 3.3V, 5V	LVPECL	70.000MHz to 800.000MHz	Available
	MVAP	14 Pin DIP	2.5V, 3.3V, 5V	PECL	70.000MHz to 800.000MHz	Available
	MVAV	14 Pin DIP	2.5V, 3.3V, 5V	LVDS	70.000MHz to 800.000MHz	Available




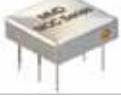
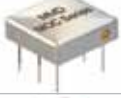







Temperature Compensated Crystal Oscillators (TCXO)

PREVIEW	SERIES	PACKAGE	SUPPLY VOLTAGE	OUTPUT LOGIC	FREQUENCY RANGE	ROHS COMPLIANT
	MTSS	2.5x3.2mm Ceramic SMD (4 pad)	2.8V, 3V	Clipped Sinewave	14.400MHz to 32.734MHz	Yes
	MTTA	3.2x5mm Ceramic SMD (4 pad)	2.5V, 3.3V, 5V	Clipped Sinewave	10.000MHz to 44.545MHz	Yes
	MTTB	3.2x5mm Ceramic SMD (4 pad)	2.8V, 3V	Clipped Sinewave	10.000MHz to 32.000MHz	Yes
	MTD	5x7mm Ceramic SMD (4 pad)	3.3V, 5V	Clipped Sinewave	10.000MHz to 27.000MHz	Yes
	MTJS	9.6x11.7mm FR4 SMD (4 Pad)	2.5V, 3.3V, 5V	Clipped Sinewave	9.600MHz to 50.000MHz	Available
	MTJH	9.6x11.7mm FR4 SMD (4 Pad)	2.5V, 3.3V, 5V	HCMOS	9.600MHz to 50.000MHz	Available
	MTJZ	9.6x11.7mm FR4 SMD (4 Pad)	2.5V, 3.3V, 5V	Sinewave	9.600MHz to 50.000MHz	Available
	MTKH	10.2x14.7mm FR4 SMD (6 Pad)	2.5V, 3.3V	HCMOS	75.000MHz to 1.000GHz	Available
	MTKL	10.2x14.7mm FR4 SMD (6 Pad)	2.5V, 3.3V	LVPECL	75.000MHz to 1.000GHz	Available
	MTKV	10.2x14.7mm FR4 SMD (6 Pad)	2.5V, 3.3V	LVDS	75.000MHz to 1.000GHz	Available
	MTFH	14 Pin DIP	3.3V, 5V	HCMOS	1.000MHz to 77.760MHz	Available
	MTFS	14 Pin DIP	3.3V, 5V	Clipped Sinewave	8.000MHz to 77.760MHz	Available
	MTFZ	14 Pin DIP	3.3V, 5V	Sinewave	8.000MHz to 77.760MHz	Available



Oven Controlled Crystal Oscillators (OCXO)

PREVIEW	SERIES	PACKAGE	SUPPLY VOLTAGE	OUTPUT LOGIC	FREQUENCY RANGE	ROHS COMPLIANT
	MOAH	1 Inch Square (5 pin)	3.3V, 5V, 12V	HCMOS	1.000MHz to 150.000MHz	No
	MOAZ	1 Inch Square (5 pin)	3.3V, 5V, 12V	Sinewave	1.000MHz to 150.000MHz	No
	MOBH	1 Inch Square (14 pin DIP pinout)	5V, 12V	HCMOS	1.000MHz to 50.000MHz	No
	MOBZ	1 Inch Square (14 pin DIP pinout)	5V, 12V	Sinewave	1.000MHz to 50.000MHz	No
	MOCH	1.5 Inch Square (5 pin)	5V, 12V	HCMOS	500.000KHz to 60.000MHz	No
	MOCZ	1.5 Inch Square (5 pin)	5V, 12V	Sinewave	500.000KHz to 60.000MHz	No
	MODZ	2 Inch Square (5 pin)	12V	Sinewave	1.000MHz, 5.000MHz, & 10.000MHz	No
	MOEH	Euro Package, 5 Pin	3.3V, 5V, 12V	HCMOS	1.000MHz to 150.000MHz	No
	MOEZ	Euro Package, 5 Pin	3.3V, 5V, 12V	Sinewave	1.000MHz to 150.000MHz	No
	MOFH	14 Pin DIP	3.3V, 5V, 12V	HCMOS	1.000MHz to 150.000MHz	5/6 Compliant
	MOFZ	14 Pin DIP	3.3V, 5V, 12V	Sinewave	1.000MHz to 150.000MHz	5/6 Compliant



Programmable Oscillators

PREVIEW	SERIES	PACKAGE	SUPPLY VOLTAGE	OUTPUT LOGIC	FREQUENCY RANGE	ROHS COMPLIANT
	MQSC	2.5x3.2mm Ceramic	3.3V, 5V	HCMOS	1.000MHz to 125.000MHz	Yes
	MQST	2.5x3.2mm Ceramic	3.3V, 5V	TTL	1.000MHz to 125.000MHz	Yes
	MQTC	3.2x5mm Ceramic	3.3V, 5V	HCMOS	1.000MHz to 125.000MHz	Yes
	MQTT	3.2x5mm Ceramic	3.3V, 5V	TTL	1.000MHz to 125.000MHz	Yes
	MQIC	5X7mm Ceramic	3.3V, 5V	HCMOS	1.000MHz to 125.000MHz	Yes
	MQIT	5X7mm Ceramic	3.3V, 5V	TTL	1.000MHz to 125.000MHz	Yes
	MQDC	9x14 mm J-Lead	3.3V, 5V	HCMOS	1.000MHz to 125.000MHz	Yes
	MQDT	9x14 mm J-Lead	3.3V, 5V	TTL	1.000MHz to 125.000MHz	Yes
	MQBC	8 Pin DIP	3.3V, 5V	HCMOS	1.000MHz to 125.000MHz	Yes
	MQBT	8 Pin DIP	3.3V, 5V	TTL	1.000MHz to 125.000MHz	Yes
	MQAC	14 pin DIP	3.3V, 5V	HCMOS	1.000MHz to 125.000MHz	Yes
	MQAT	14 pin DIP	3.3V, 5V	TTL	1.000MHz to 125.000MHz	Yes

