

CRYSTEK High Performance Oscillators



TEMPERATURE COMPENSATED CRYSTAL OSCILLATORS (TCXO) 20 X 20MM

RoHS Compliant This product is RoHS compliant.

Features:

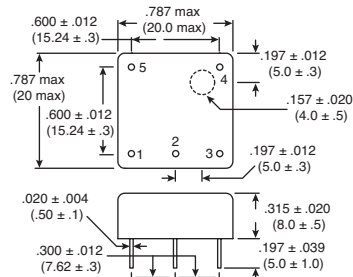
- Tight Stability at ±1.0PPM (parts per million)
- Low Phase Noise
- HCMOS
- Symmetry: 40/60% max. @ (Vdd)/2
- Load: 15 pF

Specifications:

- Frequency: 10.000MHz
- Frequency Stability: ±1.0PPM @ -10°C to +60°C
- Supply Voltage: 5V±0.5V
- Supply Current: 20mA max.
- Phase Noise: -135dBc/Hz @ 10KHz Offset

DIMENSIONS: in. (mm)

Pad	Connection
1	Supply Voltage
2	RF Output
3	Case Ground
4	Case Ground
5	Case Ground



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Crystek Part No.	Package	Operating Freq. (MHz)	Price Each			
				1	5	10	25
549-CXOH20-BP-10	CXOH20-BP-10.000	20 x 20mm thru-hole	10.000	46.16	44.62	43.08	41.54

CVT32 SERIES, 3.2 X 5MM SMD - TXCO WITH VOLTAGE CONTROL

Specifications:

- Frequency Range: 12.8-30MHz
- Input Voltage: 3.0V±10%
- Input Current: 1.2mA typ., 2mA max.
- Low Phase Noise Floor @ -140dBc/Hz
- Calibration Tolerance: ±1.5ppm
- Stability: ±2.5ppm @ -20°C to +80°C
- Aging: 1 ppm max./year

Output:

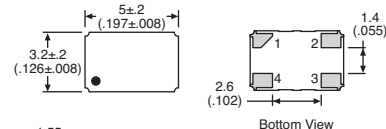
- Clipped Sinewave
- Load: 6-15KΩ / 2-10pF
- Harmonics: -12dBc max.

Voltage Control:

- 1.5V±1.0V
- Vcont Trim: ±4ppm min., ±12ppm max.

DIMENSIONS: mm (in.)

Pad	Connection	Pad	Connection
1	Volt. Cont.	3	OUT
2	GND	4	Vdd



Note: Other TCXO (Temperature Compensated Crystal Oscillators) and TCVCXO (Temperature Compensated Voltage Controlled Crystal Oscillators) available. Please contact your Mouser representative for more information.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Crystek Part No.	Package	Operating Freq. (MHz)	Price Each				
				1	10	25	100	500
549-CVT-10	CVT32-10.000	3.2x5mm SMD	10.000	8.10	7.97	7.02	5.40	4.05
549-CVT-20	CVT32-20.000	3.2x5mm SMD	20.000	8.10	7.97	7.02	5.40	4.05

CVT25 SERIES, 2.5 X 3.2MM SMD - TXCO ULTRA MINIATURE WITH VOLTAGE TRIM

Specifications:

- Frequency Range: 13.0 to 38.4MHz
- Input Voltage: 3V±5%
- Input Current: 1.2mA typ., 2mA max.
- Phase Noise: -110dBc/Hz max. 100Hz offset
- -130dBc/Hz max. 1KHz offset
- Calibration Tolerance: ±1.5ppm
- Frequency Stability: ±2.5ppm
- Aging: 1 ppm max./year

Output:

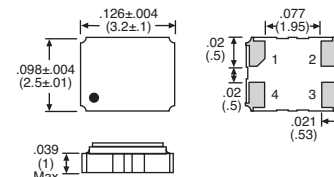
- Clipped Sinewave
- Load: 6-15KΩ / 2-10pF
- Harmonics: -12dBc max.

Voltage Control:

- 1.5V±1.0V
- Vcont Trim: ±8ppm min.

DIMENSIONS: in. (mm)

Pad	Connection	Pad	Connection
1	Volt. Cont.	3	OUT
2	GND	4	Vdd



Note: Other TCXO (Temperature Compensated Crystal Oscillators) and TCVCXO (Temperature Compensated Voltage Controlled Crystal Oscillators) available. Please contact your Mouser representative for more information.

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Crystek Part No.	Package	Operating Freq. (MHz)	Price Each				
				1	10	25	100	500
549-CVT25-26	CVT25-26.000	2.5 X 3.2mm	26.0000	8.34	8.06	7.51	5.00	4.45
549-CVT25-38.4	CVT25-38.400	2.5 X 3.2mm	38.4000	8.34	8.06	7.51	5.00	4.45

CVCSO SERIES, VOLTAGE CONTROLLED SAW OSCILLATORS 14.2 X 9.14MM

True Sinewave

Other synergistic and related products available including Semiconductors, and Receivers/Transceivers. Custom designs available also, ask your Mouser representative.

Wireless Technologies supported:
 Bluetooth ISM Band WiMAX
 CDMA2000 RFID Wi-Fi
 GSM UMTS/3G ZigBee
 InfrRed (IR) UWB

Features:

- SAW Resonator Technology
- Low Phase Noise
- Low Jitter

Output:

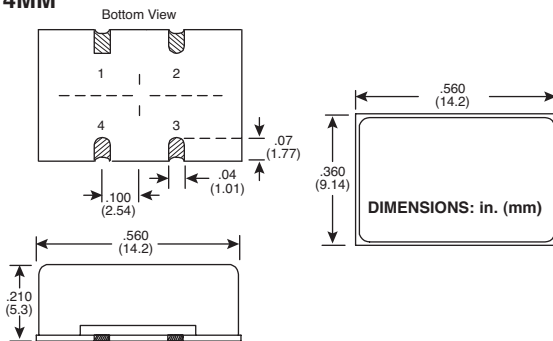
- True SINEWAVE
- Symmetry: 45/55% max @ (Vdd)/2
- Pullability APR: ±50ppm min.
- Linearity: 20% max.
- No Sub-Harmonics

Specifications:

- Frequency: 1GHz
- Frequency Stability: ±200 ppm @ 0°C to +70°C
- Supply Voltage: 5V±0.25V
- Control Voltage: 2.5V±2.5V
- Supply Current: 25mA typ., 35mA max.
- Phase Noise: -135dBc/Hz @ 10KHz Offset
- Jitter: 1 psec RMS max.

Phase Noise Typical	
1KHz	-108 dBc/Hz
10KHz	-135 dBc/Hz
100KHz	-145 dBc/Hz
1MHz	-155 dBc/Hz

Pad	Connection
1	Voltage Cont.
2	GND
3	OUT
4	Vdd.



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Crystek Part No.	Volt	Package	Operating Freq. (MHz)	Price Each			
					1	5	10	25
549-CVCSO-914	CVCSO-914-1000	5.0	9 x 14mm SMD	1000	74.68	70.01	67.20	59.74
549-CCSO-914X-1000	CCSO-914X-1000	5.0	9 x 14mm SMD	1000	56.66	-	53.12	50.99
549-CCSO-914X3-1000	CCSO-914X3-1000	3.3	9 x 14mm SMD	1000	56.66	-	50.99	45.34

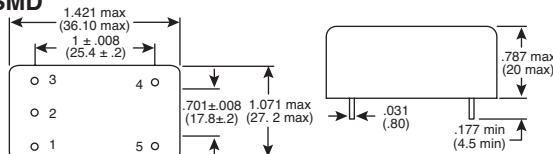
CVS575 SERIES, VOLTAGE CONTROLLED SAW OSCILLATOR 7.5 X 5MM SMD

Specifications:

- 315MHz to 1GHz Available Freq. Range
- 5x7.5mm SMD Package
- Complementary LVPECL Output
- +3.3V Supply
- Ultra-Low Jitter <0.20 pSec RMS (50KHz to 80MHz)
- Ultra-Low Phase Noise -130dBc/Hz @ 10KHz offset
- CMOS Logic Enable/Disable

Wireless Technologies supported:
 Bluetooth ISM Band WiMAX
 CDMA2000 RFID Wi-Fi
 GSM UMTS/3G ZigBee
 InfrRed (IR) UWB

Output Phase Noise	
@1KHz offset	-108 dBc/Hz
@10KHz offset	-130 dBc/Hz
@100KHz offset	-138 dBc/Hz
@1MHz offset	-140 dBc/Hz
@10MHz offset	-142 dBc/Hz



For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Crystek Part No.	Package	Operating Freq. (MHz)	Price Each			
				1	5	10	25
549-CVS575-622.08	CVS575-622.080MHz	5 x 7mm SMD	622.08	59.63	58.00	54.80	51.57
549-CVS575-500	CVS575-500MHz	5 x 7mm SMD	500.00	61.24	58.01	54.79	51.57