

CRYTEK High Performance RF Oscillators



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

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

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

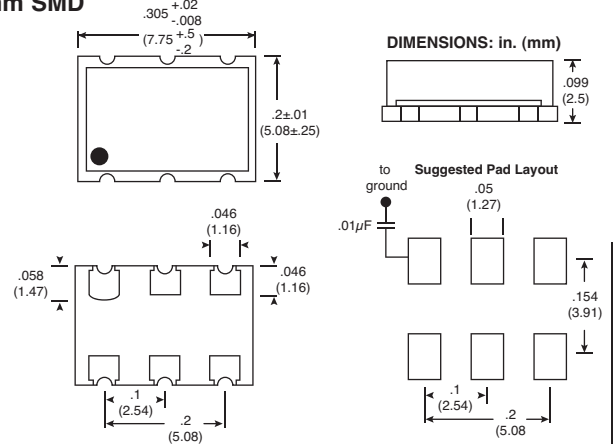
Output:
 • LVPECL Also Available In Sinewave
 • Symmetry: 45/55% max @ (Vdd)/2
 • Pullability APR: +/-50ppm min.
 • Linearity: 20% max
 • No Sub-Harmonics

Applications:
 • Frequency Translation
 • Clock Smoothing (De-Jittering)
 • SONET/SDH/ATM Networks
 • OC-192
 • General High Performance PLLs
 • Test and Measurement

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

Industry Cross
 Vatron VS-700

Pad	Connection
1	Voltage Cont.
2	E/D
3	Ground
4	OUT
5	COUT
6	Vdd



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
549-CVS575S-500	CVS575S-500MHz	5 x 7mm SMD	500.00	72.15	68.35	64.55	60.75

OVEN CONTROLLED CRYSTAL OSCILLATORS (OCXO)

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:
 • Tight Stability at ±200 ppb (parts per billion)
 • Excellent Phase Noise
 • AT-Cut Crystal
 • Electronic Frequency Control (EFC)

Specifications:
 • Frequency: 10.000MHz
 • Frequency Stability: ±200 ppb @ -20°C to +80°C
 • Supply Voltage: 15V±1.0V
 • Supply Current: 300mA max warm-up, 110mA Steady State
 • Low Phase Noise: -152dBc/Hz @ 10KHz Offset

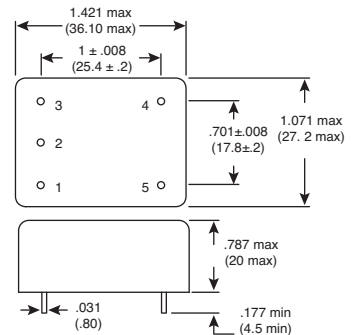
Output:
 • HCMOS
 • Symmetry: 45/55% max @ (Voh-Vol)/2
 • Load: 15 pF



RoHS Compliant

DIMENSIONS: in. (mm)

Pad	Connection
1	Control Voltage
2	No Connect
3	Supply Voltage
4	RF Output
5	Case Ground



MOUSER STOCK NO.	Crystek Part No.	Output	Voltage	Operating Freq. (MHz)	Price Each			
					1	5	10	25
549-CO27VH15DE-10	CO27VH15DE-02-10.000	HCMOS	15v±1V	10.000	259.86	256.20	252.54	248.88
549-CO27VS12DE-10	CO27VS12DE-02-10.000	Sine wave	12v±1.0V	10.000	259.86	256.20	252.54	248.88
549-CO27VS05DE-10	CO27VS05D5-02-10.000	Sinewave	5v±.25v	10.000	259.86	256.20	252.54	248.88

POCKET REFERENCE OSCILLATOR

Crystek's new PRO Series, Pocket Reference Oscillator is and industry first! A complete HCMOS crystal Clock oscillator has been integrated in a rugged SMA housing. Simply connect a +3.3Vdc to the female SMA side, and it will output a clean low jitter signal from the male SMA side. In effect, each PRO is a fixed frequency portable crystal generator. Frequency stability is ±25ppm over 0°C to 70°C. Available off the shelf in many standard frequencies, perfect for lab use.



RoHS Compliant

MOUSER STOCK NO.	Crystek Part No.	Operating Frequency (MHz)	Price Each		MOUSER STOCK NO.	Crystek Part No.	Operating Frequency (MHz)	Price Each	
			1	5				1	5
549-CPRO33-4.000	CPRO33-4.000	4.000	49.60	44.95	549-CPRO33-44.736	CPRO33-44.736	44.736	49.60	44.95
549-CPRO33-5.000	CPRO33-5.000	5.000	49.60	44.95	549-CPRO33-45.000	CPRO33-45.000	45.000	49.60	44.95
549-CPRO33-8.000	CPRO33-8.000	8.000	49.60	44.95	549-CPRO33-50.000	CPRO33-50.000	50.000	49.60	44.95
549-CPRO33-10.000	CPRO33-10.000	10.000	49.60	44.95	549-CPRO33-62.500	CPRO33-62.500	62.500	49.60	44.95
549-CPRO33-12.000	CPRO33-12.000	12.000	49.60	44.95	549-CPRO33-77.760	CPRO33-77.760	77.760	49.60	44.95
549-CPRO33-16.000	CPRO33-16.000	16.000	49.60	44.95	549-CPRO33-80.000	CPRO33-80.000	80.000	49.60	44.95
549-CPRO33-16.384	CPRO33-16.384	16.384	49.60	44.95	549-CPRO33-100.000	CPRO33-100.000	100.000	49.60	44.95
549-CPRO33-20.000	CPRO33-20.000	20.000	49.60	44.95	549-CPRO33-106.250	CPRO33-106.250	106.250	49.60	44.95
549-CPRO33-25.000	CPRO33-25.000	25.000	49.60	44.95	549-CPRO33-125.000	CPRO33-125.000	125.000	49.60	44.95
549-CPRO33-32.768	CPRO33-32.768	32.768	49.60	44.95					

PRO POWER IN-LINE REGULATORS

Crystek's new PRO POWER Series In-Line Regulators offer DC Voltage Regulation integrated in a rugged SMA housing. Simply connect the +6Vdc wall adapter to the female SMA side using the adapter cable and it will output clean regulated DC at the specified voltage. Also available in 1.8Vdc, 2.5Vdc, and 5.0Vdc. Perfect for Lab use.



RoHS Compliant

MOUSER STOCK NO.	Crystek Part No.	Voltage	Price Each
549-PROPOWER-3.3VK	PROPOWER 3.3V-KIT	3.3	73.57

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