mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Ultra-Low Phase Noise SAW VCSO

CVCSO-914 True SineWave SAW Based VCSO 9×14mm SMD 5 Volt





Model CVCSO-914 is a voltage-controlled SAW (surface acoustic wave) Clock Oscillator (VCSO). SAW crystal technology provides low-noise and low-jitter performance with true sinewave output. Features include -135 dBc/Hz phase noise at 10 kHz offset at 1 GHz, 5V input voltage, -20°C to +70°C operating temperature, and 9×14 mm SMT package. The oscillator has no sub-harmonic and the second harmonic is typically -20 dBc.

Applications include PLL frequency translation, test and measurement, avionics, point-to-point radios, and multi-point radios.

RYSTEK

| Rev: P | | |
|-------------------|--|--|
| Date: 18-Jan-2017 | | |
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CVCSO-914 True SineWave SAW Based VCSO 9×14mm SMD 5 Volt



Frequency Range: Temperature Range: CVCSO-914M option CVCSO-914X option Storage: Input Voltage: Control Voltage Range: Tuning Sensitivity (Kv): Settability At Nominal (25°C): Frequency vs Temperature: Input Current:

Output: Pullability APR: Linearity: Output Power: Start-Up Time: 2nd Harmonic: Sub-Harmonics: Modulation BW: 245.760 MHz to 1090 MHz 0°C to +70°C -20°C to +70°C -40°C to +85°C -40°C to 90°C 5.0V ±0.25V 0V to 5.0V +120 ppm/V Typical 1.5V +0.5V -1.0V ±200ppm Typical 25mA Typical, 35mA Max



True SineWave ±50ppm Min ±20% Max +10dBm Min into 50 Ω Load 2mSec Typical, 10mSec Max -20dBc Typical, -15dBc Max None >20kHz @ -3dB

G-sensitivity: Weight:





Specifications subject to change without notice.

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| Pad | Connection |
|-------------|--------------------------------|
| 1 2 3 | Volt. Control GND Output |
| 4 | Vdd |

 ← 0.200 (5.08)
→

0.9×10⁻⁹ per G

12730 Commonwealth Drive * Fort Myers, Florida 33913

PHONE: 239-561-3311 • 800-237-3061

FAX: 239-561-1025 • WWW.CRYSTEK.COM









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12.

CVCSO-914 True SineWave SAW Based VCSO 9×14mm SMD 5 Volt



Available Frequencies (MHz): 245.760 840.000 250.000 916.000 640.000 1000.000

1090.000

Custom Frequencies Available with NRE Fee

800.000







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| Parameter | Conditions |
|------------------------------|---|
| Mechanical Shock | MIL-STD-883, Method 2002, Condition B |
| Mechanical Vibration | MIL-STD-883, Method 2007, Condition A |
| Solderability | MIL-STD-883, Method 2003 |
| Solvent Resistance | MIL-STD-202, Method 215 |
| Resistance to Soldering Heat | MIL-STD-202, Method 210, Condition I or J |
| Thermal Shock | MIL-STD-883, Method 1011, Condition A |
| Moisture Resistance | MIL-STD-883, Method 1004 |

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