# imall

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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CVPD-970 Model 9×14 mm SMD, 3.3V, LVPECL



# Differential LVPECL VCXO

### 622.080 MHz to 670 MHz

Frequency Stability: Temperature Range: (Option X)

**Frequency Range:** 

Storage:

Input Voltage: Control Voltage: Input Current:

#### Output:

Symmetry:49/51% TypicRise/Fall Time:0.4ns Max @Pullability APR:±50ppm MinLinearity:±10% MaxLoad:Terminated to Vdd-2VLogic "1" Level:Vcc-0.96V MiLogic "0" Level:Vcc-1.85V MiDisable Time:100ns MaxStart-up Time:2ms Typical,

Modulation BW: Sub-harmonics:

Aging:

Period Jitter:	(20,000 periods)
Phase Jitter:	12kHz~20MHz
	50kHz~80MHz

Phase Noise Typical: 100Hz 1kHz 10kHz 100kHz ±25ppm 0°C to 70°C -40°C to 85°C -45°C to 90°C

3.3V ±0.3V 1.65V ±1.65V 80mA Max

Differential LVPECL 49/51% Typical, 45/55% Max 0.4ns Max @ 20% to 80% Vcc ±50ppm Min ±10% Max into 50 ohms Vcc-0.96V Min, Vcc-0.81V Max Vcc-1.85V Min, Vcc-1.65V Max 100ns Max 2ms Typical, 10ms Max



<5ps RMS (1-sigma) Max <1ps RMS (1-sigma) Max, <1ps RMS (1-sigma) Max,

-80 dBc/Hz -108 dBc/Hz -132 dBc/Hz -140 dBc/Hz

<3ppm 1<sup>st</sup> year, <2ppm every year thereafter

Applications:

10 Gigabit Ethernet OC48: Forward Error Correction Broadband Networks SONET/SDH/DWD ATM Network/switch Telecom

Designed using FR5 PCB & HFF crystal technology to provide a Low Noise, Low Jitter Voltage Controlled Clock Oscillator solution at a competitive price.

Specifications subject to change without notice.

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STEK 1273

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РП



#### **Mechanical:**

Shock: Solderability: Vibration: Solvent Resistance: Resistance to Soldering Heat:

#### **Environmental:**

Thermal Shock: Moisture Resistance:

### Packaging:

Tape/Reel:

RYST

ORPORATION

MIL-STD-883, Method 2002, Condition B MIL-STD-883, Method 2003 MIL-STD-883, Method 2007, Condition A MIL-STD-202, Method 215 MIL-STD-202, Method 210, Condition I or J

MIL-STD-883, Method 1011, Condition A MIL-STD-883, Method 1004

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100ea, 250ea, 500ea 24mm Tape

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