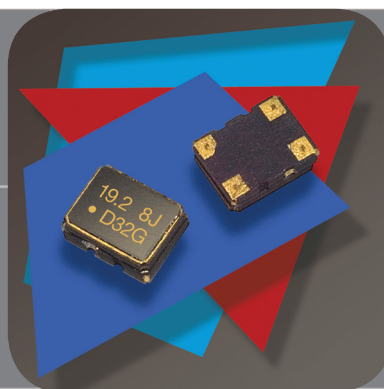


OSCILLATOR PRODUCT GUIDE

THE CONNOR-WINFIELD CORPORATION

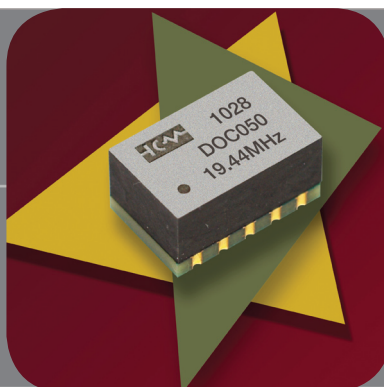


VCXO



TCXO

OCXO



XO



At Connor-Winfield we take a consultative approach in providing solutions to your frequency control design requirements. Our engineers excel at working with your design team to ensure complete compatibility with your final design, from integrating and adapting existing products to designing new products to meet your specific needs.

Oscillator Products

We specialize in custom product design, boasting an extensive offering of proven, application tested oscillators that are already in production and readily available. Whatever your need is – simple crystal clocks or tight tolerance OCXOs – our oscillator division can meet your exacting requirements.

For a complete listing of Connor-Winfield's oscillator products, visit our website at www.conwin.com

Connor-Winfield Certifications and Compliances:

ISO Certification – Connor-Winfield's quality considerations begin in the early stages of development and continue all the way through design and production. By maintaining our ISO 9001:2000 Quality System Certification, we make a commitment to not only meet but exceed our customers' quality expectations.

WBE Certification – Connor-Winfield is proud to be a WBE Certified Company. A WBE Certification means that at least 51% of the company is owned and managed by one or more women who are US citizens, whose business formation and principal place of business is in the US or its territories and whose management and daily operation is controlled by one or more of the women owners.

ITAR Registered – Connor-Winfield is ITAR Registered.

Environmental Mission Statement and RoHS Compliance –  **RoHS**
Connor-Winfield is committed to conduct corporate business in a globally responsible manner that is consistent with principles that are sensitive to the environment. We understand we have a vital role to play in sustaining our environment. Therefore, we take an active role in reducing the environmental impact of our operations and products. Further, we pledge to our stakeholders that we are in compliance with all local, state and federal environmental regulation, and that wherever possible, we strive to reduce the environmental impact of our business operations.

To demonstrate our commitment to these principles we:

- Have been CFC free in all of our manufacturing operations since 1994
- Have embraced RoHS principles and now offer a broad range of compliant products
- Meet all applicable environmental, health and safety-legal requirements to which we subscribe in the countries where we do business
- Have incorporated the principles outlined in the EICC (Electronic Industry Code of Conduct) as an internal company policy
- Maintain active programs to reduce our use of consumables (energy, water, materials, etc)
- Work with our employees to provide and maintain a safe and healthy workplace



Connor-Winfield Products are Designed and Produced in the USA

Pure Spectrum is a trademark used by Connor-Winfield. Pure Spectrum



products use only fundamental or 3rd overtone quartz crystal technology designed to give the lowest noise, lowest jitter and most monotonic frequency response without spurs or enharmonics.

New technologies, such as digital synthesizers and MEMs, have emerged to compete in the traditional crystal oscillator space. Digital synthesizers and MEMs use technology that does not have the best noise performance or the lowest jitter.

'Pure Spectrum' branding is to delineate between technologies and help define the position in the marketplace for each technology.

An example of the differences is: the line of digitally synthesized oscillators from Silicon Labs offers jitter in the range of .6 ps rms. Pure Spectrum oscillators have jitter numbers as low as .2 ps rms.

MEMs based oscillators, which make use of a special silicon electrostatic resonator built into the die, require a numerically controlled synthesizer to offset the wide frequency variation of each resonator and compensate the extreme temperature variations inherent in the MEMs resonator. Because quartz crystals are naturally high Q and inherently self-compensating, Pure Spectrum products are inherently low noise, tightly calibrated, and temperature stable.

Synthesizers require thousands of gates to produce. MEMs require external compensation just to achieve the level of an uncompensated quartz crystal. Compensation and synthesis requires memory typically in the form of electrically erasable memory, which due to its vulnerability to cosmic rays, eliminates certain markets such as space and related military. The design of a crystal oscillator is many times simpler and thus more reliable.

The intent with Pure Spectrum is to brand and identify that which the industry has assumed for over 50 years. Quartz crystal oscillators are the best frequency devices for low noise, low jitter, and reliability.

Connor-Winfield makes quartz crystals up to 600-700 MHz in small volumes and 3-400 MHz in high volumes, creating a competitive edge by providing high frequency and Pure Spectrum in one product.

Additionally, Connor-Winfield makes crystals in very small sizes, thereby competing with MEMs in terms of size. Small size resonators can withstand great amounts of shock, enough to be shot out of artillery.

O S C I L L A T O R P R O D U C T S



Connor-Winfield Voltage Controlled Crystal Oscillators (VCXOs) have become the benchmark for quality, tight tolerance, low jitter and high frequency performance. All VCXO products are RoHS compliant.

We design fundamental mode crystals, produced and quality controlled at our own facility. Our standard VCXOs are designed for applications requiring low phase noise and very low jitter. These models utilize fundamental crystals exclusively. If your application is less demanding, we also offer oscillators with relaxed jitter specifications that use frequency multi-

plication schemes at a lower cost.

For high frequency applications we design and manufacture an inverted mesa crystal design. These extremely thin, yet robust, crystals vibrate at high frequencies needed to produce a fundamental tight tolerance high frequency VCXO.

Our inverted mesa crystal design is precisely etched so that only the active center is thin, while the outer perimeter remains thicker and very stable to allow for mechanical handling. The result is a highly reliable, high frequency *fundamental* mode crystal.

VCXO Inherent Common Specs:

- Available Frequency Stabilities:
±20 ppm ±25 ppm
±50 ppm ±100 ppm
- Available Temperature Ranges:
0 to 70°C, 0 to 85°C, -40 to 85°C
- Tri-State Enable / Disable Function
- Phase Jitter: 1pS RMS maximum over the SONET Bandwidth
- Low Phase Noise
- Hermetically sealed ceramic package
- RoHS Compliant
- Standard pull ranges: 50ppm and 100ppm APR

5.0 x 3.2mm Surface Mount



- Leadless Ceramic Package
- Frequency Range 2 MHz to 52 MHz
- Phase Jitter: <1pS RMS maximum over the SONET Bandwidth

V7125 - 5.0V HCMOS Series

V7123 - 3.3V LVCMOS Series

5.0 x 7.5mm Surface Mount



VKA - 5.0V HCMOS Series

VKB - 3.3V LVCMOS Series

- Leadless Ceramic Package
- Frequency Range 1 MHz to 52 MHz
- Phase Jitter: <1pS RMS maximum over the SONET Bandwidth

V700, V800, V900 Series

- Leadless Ceramic Package
- +/-50 ppm APR.
- Phase Jitter: <1 ps RMS maximum over the SONET Bandwidth

V700 - 3.3V LVPECL Series

- Frequency Range 65 MHz to 800 MHz

V800 - 3.3V LVCMOS Series

- Frequency Range 27 MHz to 200 MHz

V900 - 3.3V LVDS Series

- Frequency Range 65 MHz to 200 MHz

V301, V401, V501 Series

- Designed for +/-20ppm applications
- Phase Jitter: <1 ps RMS maximum over the SONET Bandwidth

V301 - 3.3V LVPECL Series

- Frequency Range 65 MHz to 200 MHz

V401 - 3.3V LVCMOS Series

- Frequency Range 65 MHz to 130 MHz

V501 - 3.3V LVDS Series

- Frequency Range 65 MHz to 200 MHz

9.0 x 14.0mm Ceramic Surface Mount



- Leadless Ceramic Package
- "J" Leadless Ceramic Package

VSM - 5.0V HCMOS Series

- Frequency Range 1 MHz to 100 MHz

VPM - 5.0V PECL Series

- Frequency Range 16.384 MHz to 170 MHz

VSML - 3.3V LVCMOS Series

- Frequency Range 2 MHz to 133 MHz

VPML - 3.3V LVPECL Series

- Frequency Range 16.384 MHz to 170 MHz

9.0 x 14.0mm FR4 Surface Mount



- FR4 Surface Mount Package

VSMD - 5.0V HCMOS Series

- Frequency Range 2 MHz to 100 MHz

VPHD - 5.0V PECL Series

- Frequency Range 16.384 MHz to 200 MHz

VSLD - 3.3V LVCMOS Series

- Frequency Range 2 MHz to 100 MHz

VPLD - 3.3V LVPECL Series

- Frequency Range 16.384 MHz to 700 MHz

14 Pin DIP Through Hole



- 14 Pin DIP Through Hole Package

HV - 5.0V HCMOS Series

- Frequency Range 80 kHz to 100 MHz

HVL - 3.3V LVCMOS Series

- Frequency Range 10.0 MHz to 153.6 MHz

PV5 - 5.0V PECL Series

- Frequency Range 30 MHz to 167 MHz

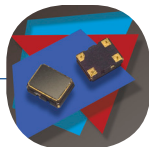
PVL - 3.3V LVPECL Series

- Frequency Range 77.76 MHz to 167 MHz



Check online
for the most up
to date RoHS
compliant
VCXO products





Connor-Winfield Temperature Compensated Crystal Oscillators (TCXOs) are designed for critical, high-end, tight tolerance, high frequency applications to perform at specification levels equal to low end ovenized products—at approximately 90% lower current requirements. Even at frequency ranges up to 156.25 MHz, our TCXOs can

easily meet the telecom lifetime stability requirement of 4.6 ppm.

All Connor-Winfield's TCXOs are RoHS compliant and utilize fundamental mode crystals to produce the high frequency, tight tolerance, low phase noise TCXOs and Temperature Compensating Voltage Controlled Crystal Oscillators (TCVCXO)

TCXO Inherent Common Specs:

- RoHS Compliant Lead Free ✓ RoHS
- Voltage Controlled (VCTCXO) or Fixed Frequency Output (TCXO)
- Low Phase Jitter: 1pS RMS maximum over the SONET Bandwidth
- Low Phase Noise
- Tape and Reel Packaging

3.2 x 2.5mm Surface Mount ✓ RoHS



- Frequency Range 6 MHz - 40 MHz
 - 2.5V or 3.3V Operation
 - Clipped Sinewave Output Logic
 - Ultra-Miniature SMT Package
 - Available Frequency Stabilities: ± 0.50 ppm, ± 1.00 ppm, ± 1.50 ppm, ± 2.00 ppm
 - Temperature Ranges: -30 to 85°C
 - Low Power <2mA
 - Low Jitter <1pS RMS
 - Recommended for new designs
 - Also available as VCTCXO
 - Tape and Reel available
- Cxx* Series**
D32G Series

5.0 x 3.2mm Surface Mount ✓ RoHS



- Frequency Range 6 MHz - 40 MHz
 - 2.5V or 3.3V Operation
 - LVCMOS or Clipped Sinewave Output Logic
 - Sub-Miniature SMT Package
 - Available Frequency Stabilities: ± 0.28 ppm, ± 0.50 ppm, ± 1.00 ppm, ± 2.00 ppm
 - Available Temperature Ranges: 0 to 70°C, -20 to 70°C, -30 to 85°C
 - Low Power <2mA - <10mA
 - S3 Telecom Operation
 - .32 ppm Holdover
 - 4.6 ppm / Life
 - Low Jitter <1pS RMS
 - Recommended for new designs
 - Also available as VCTCXO
 - Tape and Reel available
- M6xx & M5xx Series**
D53G Series

5.0 x 7.0mm Surface Mount ✓ RoHS



- Frequency Range 6 MHz to 52 MHz
 - Available Frequency Stabilities: ± 0.05 ppm, ± 0.10 ppm, ± 0.25 ppm, ± 0.28 ppm, ± 1.0 ppm
 - Available Temperature Ranges: 0 to 70°C or -40 to 85°C
 - Supply Voltage: 3.3 Vdc or 5.0 Vdc
 - HCMOS, LVCMOS or Clipped Sinewave Output Logic
 - Hermetically Sealed Crystal
 - Leadless Ceramic Package
 - Also available as VCTCXO
 - Tape and Reel available
- Txxx - 3.3V LVCMOS Series**
T5xx, T6xx S3 Telecom
D75 Series Tri-State LVCMOS

9.0 x 14.0mm FR4 Surface Mount ✓ RoHS



- Frequency Range 8 MHz to 160 MHz
- Available Frequency Stabilities: ± 0.5 ppm; ± 1.0 ppm; ± 2.5 ppm; ± 4.6 ppm
Other stabilities are available
- Available Temperature Ranges: 0 to 70°C; -40 to 85°C
- FR4 Surface Mount Package
- Also available as VCTCXO

- Fixed Frequency**
TFHD - 5.0 HCMOS Series
TFLD - 3.3V LVCMOS Series
- Voltage Controlled**
TVHD - 5.0 HCMOS Series
TVLD - 3.3V LVCMOS Series

20 x 14mm FR4 Surface Mount ✓ RoHS



- Frequency Range: 12 MHz to 160 MHz
- Available Frequency Stabilities: $\pm .25$ ppm; ± 0.5 ppm; ± 1.0 ppm, ± 2.5 ppm; ± 4.6 ppm
Other stabilities are available
- Available Temperature Ranges: 0 to 70°C; -40 to 85°C
Other ranges are available
- Stratum 3 Compliance
- FR4 Surface Mount Package
- Also available as VCTCXO

- Fixed Frequency**
TFHB - 5.0 HCMOS Series
TFLB - 3.3V LVCMOS Series
- Voltage Controlled**
TVHB - 5.0 HCMOS Series
TVLB - 3.3V LVCMOS Series

14 Pin DIP Through Hole ✓ RoHS



- Available Frequency Stabilities: $\pm .25$ ppm, ± 0.5 ppm, ± 1.0 ppm, ± 2.5 ppm, ± 4.6 ppm
Other stabilities are available
- Available Temperature Ranges: 0 to 70°C, -40 to 85°C
Other ranges are available
- Stratum 3 Compliance
- Hermetically Sealed Leadless Ceramic Package
- Also available as VCTCXO

- Fixed Frequency**
HTFH - 5.0V HCMOS Series
• Frequency Range 8 MHz to 160 MHz
HTFL - 3.3V LVCMOS Series
• Frequency Range 8 MHz to 160 MHz
- Voltage Controlled**
HTVH - 5.0V HCMOS Series
• Frequency Range 8 MHz to 160 MHz
HTVL - 3.3V LVCMOS Series
• Frequency Range 8 MHz to 160 MHz



All Connor-Winfield
TCXO Oscillators
are RoHS Compliant

OCXO Product Families



Originally designed for tight tolerance performance in Connor-Winfield's timing synchronization modules, all Oven Controlled Crystal Oscillators (OCXOs) offer RoHS compliance, high stability and reliability along with high frequency pull capability if required.

Our unique OCXO balanced heating assembly design assures

exceptional thermal performance within a DIP package. Connor-Winfield's OCXOs use an internally produced and tested crystal for the most dependable long term aging.

Stratum 3E performance is also available in the C08 Euro-Package, 1x1" that utilizes an SC crystal design for optimum stability in this size package.

OCXO Inherent Common Specs:

- RoHS Compliant
- ± 4.6 ppm or less Overall Tolerance
- Stratum 3 or 3E Compliant
- Low Phase Jitter: 1pS RMS maximum over the SONET Bandwidth
- Low Phase Noise
- Low Aging Rate
- Low Power

Standard Stability OCXO Specs:

Stratum 3 Compliance

- RoHS Compliant
- 30 ppb per day aging stability
- 250 ppb Overall Temperature Stability
- Variable or Fixed Frequency
- Available Temperature Ranges: 0 to 70°C; -40 to 85°C
- Supply Voltage: 3.3 Vdc or 5.0 Vdc
- FR4 SMT or 14 Pin DIP Through Hole Packages
- Frequency Range: 1 - 40 MHz

Recommended Models

14 Pin DIP Through Hole

PF154
PF164



20 x 14mm FR4 Surface Mount

PF254
PF264



Improved Stability OCXO Specs:

Stratum 3 Compliance

- RoHS Compliant
- 8 ppb per day aging stability
- Down to as low as 50 ppb Overall Temperature Stability
- Variable or Fixed Frequency
- Available Temperature Ranges: 0 to 70°C; -20 to 70°C; -40 to 85°C
- Supply Voltage: 3.3 Vdc or 5.0 Vdc
- FR4 SMT or 14 Pin DIP Through Hole Packages
- Frequency Range: 1 - 40 MHz

Recommended Models

9.0 x 14.0mm Surface Mount

OX914 Series

Voltage Controlled versions of the OX91 Series are in development



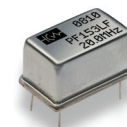
DOC Series

LVC MOS Output
Optional Electronic Frequency Tuning



14 Pin DIP Through Hole

PF150
PF160



20 x 14mm FR4 Surface Mount

PF250
PF260



High Stability OCXO Specs:

Stratum 3E Compliance

- RoHS Compliant
- 1 ppb per day aging stability
- 10 ppb Overall Temperature Stability
- Variable or Fixed Frequency
- Available Temperature Ranges: 0 to 70°C; -20 to 70°C; -40 to 85°C
- Supply Voltage: 3.3 Vdc or 5.0 Vdc
- FR4 Surface Mount, 25 x 25mm Through Hole, or C08 Package
- Frequency Range: 10 - 32 MHz

Recommended Models

25 x 25mm Through Hole Series

Fixed Frequency

ADOF3S3E - 3.3V LVC MOS Series
OFC5EF3AB - 5.0V HCMOS Series

Voltage Controlled

OVC5EJ2AA - 5.0V Sinewave

Other models are available



C08 Package Through Hole

Fixed Frequency

ABOF5S3E - 5.0V HCMOS Series

Voltage Controlled

ABOV5S3E - 5.0V HCMOS Series

OX125 - 5.0V HCMOS Series

Other models are available



25.4 x 22mm FR4 Surface Mount

Fixed Freq or Voltage Controlled

OH300

Exceptional precise frequency standards



30 x 25mm FR4 Surface Mount

Fixed Frequency

ASOF5S3E - 5.0V HCMOS Series
BSOF3S3E - 3.3V LVC MOS Series
OFC5DJ3BS - 5.0V Sinewave Series

Voltage Controlled

ASOV5S3E - 5.0V HCMOS Series



All Connor-Winfield
OCXO Oscillators
are RoHS Compliant

XO Clock Crystal Products



Our proven expertise in sophisticated system design fittingly qualifies Connor-Winfield to supply the most reliable, stable and accurate clocks available today.

Internal crystal processing ensures tight angle control that provides low ppm stability in tight tolerance clocks, and gives Connor-Winfield the ability to produce clocks over a very wide frequency range — 1 Hz to 800 MHz.

Our standard clocks are designed for applications requiring low phase noise and jitter less than 1pS. These models utilize fundamental and overtone crystals exclusively. If your application is less demanding, ask your Connor-Winfield rep for clocks with relaxed jitter specs that use frequency multiplication schemes at a lower cost.

Connor-Winfield clocks are available in low Voltage versions as well as a

variety of logic families including HC-MOS, PECL, and ECL, in a wide range of package styles including surface mount types down to 3.5 x 6.0mm. Most clocks are available in a RoHS package.

XO Inherent Common Specs:

- Tri-State Enable / Disable Function
- Low Phase Jitter: <1pS RMS maximum over the SONET Bandwidth
- Low Phase Noise

2.0 x 2.5mm Surface Mount - LVCMOS

- 3.3V Supply Voltage
- Frequency Range 4 MHz - 54 MHz

CW2 Series

3.2 x 2.5mm Surface Mount - LVCMOS ✓ RoHS

- Available Supply Voltages: 1.8V; 2.5V; 2.8V; 3.3V
- Frequency Range 4 MHz - 54 MHz
- Temp Range: -40 to 85°C

CW3 Series

3.2 x 5.0mm Surface Mount ✓ RoHS



- Available Frequency Stabilities: ±25 ppm ±50 ppm ±100 ppm
- Available Temperature Ranges: 0 to 70°C -40 to 85°C
- Hermetically Sealed Leadless Ceramic Package

71 Series

- 5.0V HCMOS Clock Series
- 3.3V LVCMOS Clock Series
- Temp Range: 0 to 70°C

72 Series

- Temp Range: -40 to 85°C
- 5.0V HCMOS Clock Series
 - Frequency Range 1.8 MHz to 50 MHz
- 3.3V LVCMOS Clock Series
 - Frequency Range 1.8 MHz to 160 MHz

5.0 x 7.5mm ✓ RoHS Surface Mount



- Available Frequency Stabilities:
 - ±20 ppm ±25 ppm
 - ±50 ppm ±100 ppm
- Available Temperature Ranges: 0 to 70°C -40 to 85°C
- Hermetically Sealed Leadless Ceramic Package

CWX813 - 3.3V LVCMOS Clock Series

- Frequency Stability: ±20 ppm

CWX823 - 3.3V LVCMOS Clock Series

- Frequency Stability: ±40 ppm
- Frequency Range 1.0 MHz to 156.25 MHz

X2 Series

- 2.5V LVCMOS Clock Series
- 3.3V LVCMOS Clock Series
 - Temp Range: -40 to 85°C
 - Frequency Range 70 MHz to 220 MHz

X1 Series

- 3.3V LVCMOS Clock Series
 - Temp Range: 0 to 70°C

HSM Series

- 3.3V LVCMOS
- 5.0V HCMOS
- Frequency Range 1.0 MHz to 170 MHz

5000 Series

- 1.8V, 2.5V, 2.8V LVCMOS
 - Temp Range: -40 to 85°C, 0 to 70°C
 - Frequency Range 1.8 MHz to 80 MHz

XH Series

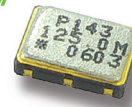
- 1.8V, 2.5V, 2.8V LVCMOS
 - Frequency Range 1.8 MHz to 80 MHz
 - Harsh Environment
 - High Reliability

5.0 x 7.5mm Surface Mount continued...

P Series

LVPECL Clock Series

- 25 - 260 MHz
- 2.5V, 3.3V
- 20 to 100ppm Stabilities
- Commercial to Industrial Temps
- 0.3ps rms jitter (12 kHz to 20 MHz)



L Series

LVDS Clock Series

- 25 - 260 MHz
- 2.5V, 3.3V
- 20 to 100ppm Stabilities
- Commercial to Industrial Temps
- 0.5ps rms jitter (12 kHz to 20 MHz)



PM Series

LVPECL Clock Series

- 100 - 700 MHz
- 2.5V, 3.3V
- 20 to 100ppm Stabilities
- Commercial to Industrial Temps
- 0.6ps rms jitter (12 kHz to 20 MHz)



LM Series

LVDS Clock Series

- 100 - 700 MHz
- 2.5V, 3.3V
- 20 to 100ppm Stabilities
- Commercial to Industrial Temps
- 0.6ps rms jitter (12 kHz to 20 MHz)



For all clock products, check data sheets for frequency stability options at www.conwin.com.

9.0 x 14.0mm Ceramic Surface Mount



- Available Frequency Stabilities:
±20 ppm ±25 ppm
±50 ppm ±100 ppm
- Available Temperature Ranges:
0 to 70°C 0 to 85°C -40 to 85°C
- Hermetically Sealed Leadless Ceramic Package
- Hermetically Sealed "J" Leaded Ceramic Package
- Available in RoHS Compliance

MSD - 5.0V HCMOS Clock Series

- Frequency Range 1.0 MHz to 100 MHz

MSD A - 3.3V LVCMOS Clock Series

- Frequency Range 16.384 MHz to 170 MHz

9.0 x 14.0mm FR4 Surface Mount



- Available Frequency Stabilities:
±20 ppm ±25 ppm
±50 ppm ±100 ppm
- Available Temperature Ranges:
0 to 70°C 0 to 85°C -40 to 85°C

FPLD - 3.3V LVPECL Clock Series

- Frequency Range 16.0 MHz to 800 MHz

FPLD - 5.0V PECL Clock Series

- Frequency Range 16.0 MHz to 800 MHz



FPLD54TE1

- Available Frequency Stabilities:
622.08 MHz, 644.53125 MHz,
666.5143 MHz, 669,3266 MHz,
672.1627 MHz

14 Pin DIP Through Hole Series



- Available Frequency Stabilities:
±20 ppm ±25 ppm
±50 ppm ±100 ppm
- Available Temperature Ranges:
0 to 70°C 0 to 85°C -40 to 85°C
- Hermetically Sealed 14 Pin DIP Through Hole Package

HC1 - 5.0V HCMOS Clock Series

- Frequency Range 1.0 MHz to 100 MHz

HC5 - 3.3V LVCMOS Clock Series

- Frequency Range 1.0 MHz to 170 MHz

EH13 - 5.0V PECL Clock Series

- Frequency Range 8 MHz to 400 MHz

EE14 - 3.3V LVPECL Clock Series

- Frequency Range 13 MHz to 170 MHz



Committed to RoHS Compliant Oscillator Products

For specific product data, performance specifications, RoHS Compliance, dimensions and ordering information, please refer to our website at www.conwin.com

ISO 9001:2000 Certification

Connor-Winfield has been ISO 9001 certified since 1995, and is currently certified under



ISO's newest ISO 9001:2000 standard which ensures

superior quality and repeatability in the manufacturing process.

We believe that quality begins well before our product is ever assembled. By maintaining our ISO 9001:2000 Quality

System certification, continuous improvement to our processes is a commitment we make to constantly go beyond the expectations of our customers.

For us, quality is not just a technique or system. It is an all encompassing and uncompromising philosophy to produce products that not only precisely meet our customers' quality requirements, but also surpass them in every way.

OSCILLATOR PRODUCT GUIDE

THE CONNOR-WINFIELD CORPORATION

Our Partnership Philosophy

Connor-Winfield talks about partnerships, but how do we follow through?

From design to delivery, we are committed to providing the right product when you need it to get your product to market. But the process is circular. We also track emerging developments in our customers' markets to ensure that we have the tools and data required to support your next product development effort



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