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Euroquartz

Euroquartz Limited is an independent, UK-based, manufacturer and supplier of quartz crystals, oscillators, filters and frequency-related products to the electronics manufacturing industry world-wide.

• Low Current Applications Standard

CLOCKS

Standard Clock Oscillator – Ultra Low Current

Frequency Range	156kHz – 160MHz
Supply Voltage	1V /2.5V and 3.3V
Current Consumption	1.1mA – 5.0mA
Package Sizes	7x5 mm

XOA Series - Real time clock and precision timing

Current Consumption	32µA - 36µA
Frequencies	27.3kHz – 100kHz
Package Sizes	3.2x2 /5x3.2mm/7x5mm

XOK Series - Standard Clock Oscillator – Ultra Low Current

Current Consumption	1.1mA – 5mA
Frequencies	156kHz – 160MHz
Package Sizes	5x3.2mm/7x5mm

TCXO - EME32T - Real time clock, GPS and Smart metering

Current Consumption	1.5µA
Frequencies	32.768kHz
Package Sizes	3.2x2.5mm

• Differential Outputs

LVPECL VCXO'S

GPQF Series - Differential LVPECL Output VCXO

Frequency Range	10 – 1500MHz
Pulling Range	±90ppm min
Current consumption	16mA Typical
Package Sizes	7x5mm

GPQN Series - Differential LVPECL Output VCXO

Frequency Range	8 – 165MHz
Supply Voltage	10mA - 44mA (Typical)
Current Consumption	-1% Ctre ±0.5%
Package Sizes	Package Sizes 7x5mm and 5x3.2mm

• Low EMI Applications

SPREAD SPECTRUM

HM R Group - Reduces Electromagnetic Interference

Frequency Range	3.5 – 165MHz
Spread Down	-0.5% Ctre ±0.25
Current consumption	10mA - 35mA (Typical)
Package Sizes	7x5mm and 5x3.2mm

HM Y Group - Reduces Electromagnetic Interference

Frequency Range	8 – 165MHz
Supply Voltage	10mA - 44mA (Typical)
Current Consumption	-1% Ctre ±0.5%
Package Sizes	Package Sizes 7x5mm and 5x3.2mm

HM P Group - Reduces Electromagnetic Interference

Frequency Range	8 – 165MHz
Supply Voltage	10mA - 44mA (Typical)
Current Consumption	-1% Ctre ±0.5%
Package Sizes	7x5mm and 5x3.2mm

HM B Group - Reduces Electromagnetic Interference

Frequency Range	3.0 – 200MHz
Supply Voltage	-1.0% Ctre ±3.0%
Current Consumption	10 -25mA Typical
Package Sizes	7x5mm and 5x3.2mm

• Differential Outputs

LVDS VCXO

Differential LVDS VCXO

Frequency Range	10.0 – 1450MHz
Integrated Jitter	0.2nS Typical
Current consumption	25mA Typical
Package Sizes	7x5 , 5x3.2 and 3.2x2.5

Differential LVDS VCXO

Frequency Range	10.0 – 1450MHz
Pulling Range	100ppm Min
Current consumption	16mA Typical
Package Sizes	7x5, 5x3.2 and 3.2x2.5

Voltage Controlled

VCXO SERIES

G Series - Voltage Controlled Oscillator CMOS Output

Frequency Range	1.0 – 50.0MHz
Pulling Range	±80ppm Min
Phase Jitter	1.0pS Max
Package Sizes	7x5/ 5x3.2/3x2.2 mm

GTQF Series - Voltage Controlled Oscillator CMOS Output

Frequency Range	10 – 245.0MHz
Pulling Range	±90ppm Min
Phase Jitter	0.9pS Typical
Package Sizes	7x5and 5x3.2mm

GTQN Series - Voltage Controlled Oscillator CMOS Output

Frequency Range	10 – 245.0MHz
Pulling Range	±90ppm Min
Phase Jitter	0.6pS Typical
Package Sizes	7x5and 5x3.2mm

GPQN Series - Voltage Controlled Oscillator – PECL Output

Frequency Range	10MHz – 1450.0MHz
Pulling Range	±90 - 200ppm
Phase Jitter	0.6pS Typical
Package Sizes	7x5 and 5x3.2mm

GDQF Series - Voltage Controlled Oscillator – LVDS Output

Frequency Range	10MHz – 1450.0MHz
Pulling Range	±100ppm
Phase Jitter	1.2 pS Typical
Package Sizes	7x5 and 5x3.2mm

GDQN Series - Voltage Controlled Oscillator – LVDS Output

Frequency Range	10MHz – 1450.0MHz
Pulling Range	±100ppm
Phase Jitter	0.6pS Typical
Package Sizes	7x5 and 5x3.2mm

Differential Outputs

LVDS CLOCKS

HDK Series - Differential LVDS Output Waveform

Frequency Range	10 – 220MHz
Integrated Jitter	0.2pS Typical
Current consumption	16mA Typical
Package Sizes	7x5 , 5x3.2 and 3.2x2.5

HDQF Series - Differential LVDS Output Waveform

Frequency Range	10 – 1450MHz
Integrated Jitter	0.9pS Typical
Current consumption	16mA Typical
Package Sizes	7x5,5x3.2

Military & Aerospace

1000BM Series - 14 pin DIL Clock CMOS

Frequency Range	10MHz – 40MHz
Input Voltage	3.3V/5V
Stability	±50ppm
Current Consumption	10 ~ 70 mA

75000 BM Series - 7x5mm smd Clock CMOS

Frequency Range	1MHz – 60MHz
Input Voltage	1.8V ~ 5V
Stability	±50 ~ ±100ppm
Current Consumption	7mA max (15pF)

STXO Series - 3.2x2.5mm High Shock smd Clock

Frequency Range	10MHz – 80MHz
Input Voltage	3.3V/5V
Current Consumption	3mA max
Phase Noise	-163 dBc/Hz

CXOLHG Series - 3.2x2.5mm High Shock smd Clock

Frequency Range	10MHz – 80MHz
Input Voltage	2.5V/3V/3.3V
Current Consumption	3mA max
Phase Noise	-163 dBc/Hz

T1307 Series - TCXO Ultra-low vibration sensitivity

Frequency Range	10MHz – 50MHz
Input Voltage	3.3V,5V or 12V
Current Consumption	6mA max
Phase Noise	-157dBc/Hz

YH1300 Series - OCXO Ultra-low vibration sensitivity

Frequency Range	10MHz – 50MHz
Input Voltage	3.3V/5V
Low g sensitivity	5x10 ⁻¹¹ /g
Phase Noise	-165dBc/Hz

Differential Outputs

LVDS CLOCKS

HDQN Series - Differential LVDS Output Waveform

Frequency Range	10 – 1450MHz
Integrated Jitter	0.6pS Typical
Current consumption	15mA – 31mA
Package Sizes	7x5 , 5x3.2

HCK Series - Non-PLL Differential LVDS Output Waveform

Frequency Range	13.50 – 220MHz
Integrated Jitter	0.2pS Typical
Current consumption	25mA Typical
Package Sizes	7x5,5x3.2 and 3.2x2.5