## **EURO**QUARTZ

# **GF14 VCXO**

### 50.01MHz ~ 640.0MHz

Frequency range 50.01MHz to 640MHz

GF14 VCXOs, are packaged in an industry-standard, 14 pin Dual in Line package. GF14 VCXOs provide excellent phase jitter

50.01MHz to 640.0MHz

0.4ps typical, 0.5ps maximum

3.0ps typical (for 156.250MHz)

20ps typical (for 156.250MHz)

Tune to the nominal frequency

10ms maximum, 5ms typical

30mA maximum (15pF load)

40mA maximum (15pF load) 10% maximum, 6% typical

Monotonic and Positive. (An increase of control voltage

increases output frequency.)

±3ppm per year first year ±2ppm per year thereafter Not available (4 pad package)

0.7ns typical (15pF load)

50% ±5% measured at 50% Vdd

with  $Vc = 1.65 \pm 0.2VDC$ 

90% Vdd minimum

10% Vdd maximum

±80ppm minimum

25kHz minimum

60kQ minimum

-50° to +100°C

**Fully compliant** 

See table

15pF

3.3 VDC ±5% LVCMOS

(for 156.250MHz)

See table below

14 pin Dual-in-Line

**LVCMOS Output** 

DESCRIPTION

**SPECIFICATION** 

**Frequency Range** 

Period Jitter RMS:

Integrated Phase Jitter:

Period Jitter Peak to peak:

Initial Frequency Accuracy:

Output Voltage HIGH (1):

Output Voltage LOW (0):

Temperature Stability:

**Current Consumption** 

Modulation Bandwidth:

Input Impedance:

(Transfer function)

Storage Temperature:

Enable/Disable (Tristate):

**Slope Polarity:** 

Frequency Deviation Range:

<100MHz:

>100MHz:

Supply Voltage:

Output Logic:

Phase Noise:

**Output Load:** 

Duty Cycle:

Linearity:

Ageing:

**RoHS Status:** 

Start-up Time:

Rise/Fall Times:

Supply Voltage 3.3 VDC

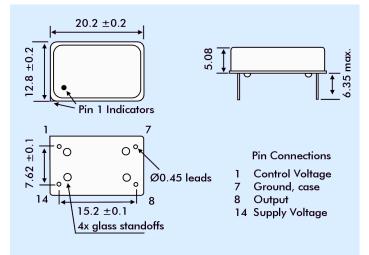
performance, less than 1ps.

- High Q fundamental crystal
- Ultra low jitter less than 1ps





#### **OUTLINE & DIMENSIONS**



#### PHASE NOISE

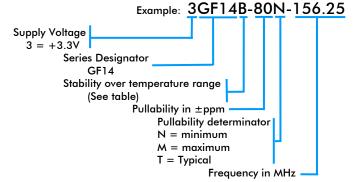
Offset	Frequency 155.25MHz
10Hz	-62dBc/Hz
100Hz	-92dBc/Hz
1kHz	-120dBc/Hz
10kHz	-132dBc/Hz
100kHz	-128dBc/Hz
1MHz	-140dBc/Hz
10MHz	-150dBc/Hz

### **FREQUENCY STABILITY**

Stability Code	Stability ±ppm	Temp. Range	
А	25	0°~+70°C	
В	50	0°~+70°C	
С	100	0°~+70°C	
D	25	-40°~+85°C	
E	50	-40°~+85°C	
F	100	-40°~+85°C	
If non-standard frequency stability is required			

Use 'I' followed by stability, i.e. I20 for ±20ppm

#### PART NUMBERING



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