

# 8 pin Dual-in-Line

- Frequency range 50.01MHz to 200MHz (15pF load)
- Frequency range 50.01MHz to 320MHz (10pF load)
- LVCMOS Output
- Supply Voltage 3.3 VDC
- Ultra low jitter less than 1ps



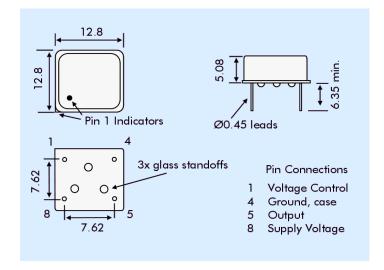


#### **DESCRIPTION**

GF8 VCXOs, are packaged in an industry-standard, 8 pin Dual in Line package. GF8 VCXOs provide excellent phase jitter performance, less than 1 ps.

## SPECIFICATION

SPECIFICATION		
Frequency Range		
Load 15pF:	50.01MHz to 200.0MHz	
Load 10pF:	50.01MHz to 320.0MHz	
Supply Voltage:	3.3 VDC ±5%	
Output Logic:	LVCMOS	
Integrated Phase Jitter:	0.4ps typical, 0.5ps maximum (for 155.250MHz)	
Period Jitter RMS:	3.0ps typical (for 155.250MHz)	
Period Jitter Peak to peak:	20ps typical (for 155.250MHz)	
Phase Noise:	See table below	
Initial Frequency Accuracy:	Tune to the nominal frequency with Vc= 1.65 ±0.2VDC	
Output Voltage HIGH (1):	90% Vdd minimum	
Output Voltage LOW (0):	10% Vdd maximum	
Pulling Range:	From ±30ppm to ±150ppm	
Temperature Stability:	See table	
Output Load:	15pF	
Start-up Time:	10ms maximum, 5ms typical	
Duty Cycle:	50% ±5% measured at 50% Vdd	
Rise/Fall Times:	0.7ns typical (15pF load)	
Current Consumption		
<100MHz:	30mA maximum (15pF load)	
>100MHz:	40mA maximum (15pF load)	
Linearity:	10% maximum, 6% typical	
Modulation Bandwidth:	25kHz minimum	
Input Impedance:	60kΩ minimum	
Slope Polarity:	Monotonic and Positive. (An	
(Transfer function)	increase of control voltage	
	always increases output	
	frequency.)	
Storage Temperature:	-50° to +100°C	
Ageing:	±5ppm per year maximum	
Enable/Disable (Tristate):	Not available (4 pad package)	
RoHS Status:	Fully compliant	



### **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
Α	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
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If non-standard frequency stability is required Use 'I' followed by stability, i.e. I20 for ±20ppm

