

# **GPF14 LVPECL VCXO**

## 14 pin DIL VCXO

- Frequency range 38MHz to 640MHz
- LVPECL Output
- Supply Voltage 3.3 VDC
- Phase jitter 0.4ps typical
- Pull range from ±30ppm to ±150ppm

### DESCRIPTION

GPF14 VCXOs are packaged in an industry-standard 14 pin dual-inline package. Typical phase jitter for GPF series VCXOs is 0.4 ps. Output is LVPECL. Applications include phase lock loop, SONET/ATM, set-top boxes, MPEG, audio/video modulation, video game consoles and HDTV.

### SPECIFICATION

Frequency Range:	38.0MHz to 640.0MHz	
Supply Voltage:	3.3 VDC ±5%	
Output Logic:	LVPECL	
RMS Period Jitter:	3.0ps typical	
Peak to Peak Jitter:	20.0ps typical, 30.0ps maximum	
Phase Jitter:	0.4ps typical, 5.0ps maximum	
Initial Frequency Accuracy:	Tune to the nominal frequency with Vc= 1.65 ±0.2VDC	
Output Voltage HIGH (1):	Vdd-1.025V minimum	
	Vdd-0.880V maximum	
Output Voltage LOW (0):	Vdd-1.810V minimum	
	Vdd-1.620V maximum	
	(RL=50 $\Omega$ to Vdd-2V)	
Pulling Range:	From ±30ppm to ±150ppm	
Control Voltage Range:	1.65 ±0.35 Volts	
Temperature Stability:	See table	
Output Load:	50 $\Omega$ into Vdd or Thevenin equiv.	
Rise/Fall Times:	0.5ns typ., 0.7ns max.	
	20% Vdd to 80% Vdd	
Duty Cycle:	50% ±5%	
	(Measured at Vdd-1.3V)	
Start-up Time:	10ms maximum, 5ms typical	
Current Consumption:	75mA maximum at 212.5MHz	
·	80mA maximum at 622.08MHz	
Static Discharge Protection:	2kV maximum	
Storage Temperature:	-55° to +150°C	
Ageing:	±2ppm per year maximum	
Enable/Disable:	Not implemented - 4 pin package	
RoHS Status:	Fully compliant or non-compliant	
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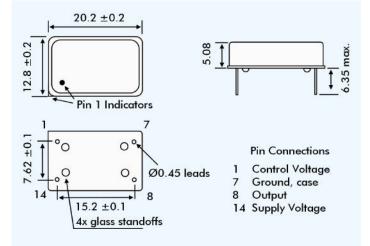
#### FREQUENCY STABILITY

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 '1' followed by stability, i.e. 120 for ±20ppm		





#### **OUTLINE & DIMENSIONS**



#### PART NUMBERING

