

# 14 pin DIL VCXO

- Frequency range 60MHz to 240MHz
- LVDS Output
- Supply Voltage 3.3 VDC
- Phase jitter 0.2ps typical
- Pull range from ±30ppm to ±150ppm

### **DESCRIPTION**

GDA14 VCXOs are packaged in an industry-standard 14 pin dual-inline package. Typical phase jitter for GDA series VCXOs is 0.2 ps. Output is LVDS. Applications include phase lock loop, SONET/ATM, set-top boxes, MPEG, audio/video modulation, video game consoles and HDTV.

## **SPECIFICATION**

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Frequency Range:	60.0MHz to 240.0MHz	
Supply Voltage:	3.3 VDC ±5%	
Output Logic:	LVDS	
RMS Period Jitter		
60.0MHz ~ 120MHz: 120MHz ~ 240MHz:	2.5ps typical 4.7ps typical	
Peak to Peak Jitter		
60.0MHz ~ 120MHz: 120MHz ~ 240MHz:	17.5ps typical 24.5ps typical	
Phase Jitter:	0.2ps typical	
Initial Frequency Accuracy:	Tune to the nominal frequency with Vc= 1.65 ±0.2VDC	
Output Voltage HIGH (1):	1.4 Volts typical	
Output Voltage LOW (0):	1.1 Volts typical	
Pulling Range:	From ±30ppm to ±150ppm	
Control Voltage Range:	1.65 ±1.35 Volts	
Temperature Stability:	See table	
Output Load:	50Ω into Vdd or Thevenin equiv. (Terminating resistors required on all outputs)	
Rise/Fall Times:	0.5ns typ., 0.7ns max. 20% Vdd to 80% Vdd	
Duty Cycle:	50% ±5% (Measured at Vdd-1.25V)	
Start-up Time:	10ms maximum, 5ms typical	
Current Consumption:	55mA typical, 60mA maximum (for 202.50MHz)	
Static Discharge Protection:	2kV maximum ´	
Storage Temperature:	-55° to +150°C	
Ageing:	±2ppm per year maximum	
Enable/Disable:	See table	
RoHS Status:	Fully compliant or non-compliant	

# FREQUENCY STABILITY

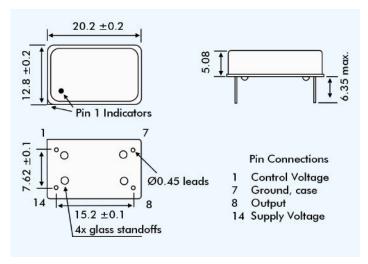
Stability Code	Stability ±ppm	Temp. Range
Α	25	0°∼+70°C
В	50	0°∼+70°C
С	100	0°∼+70°C
D	25	-40°~+85°C
E	50	-40°∼+85°C
F	100	-40°~+85°C
If non-standard frequency stability is required		

If non-standard frequency stability is required Use 'I' followed by stability, i.e. 120 for ±20ppm





### **OUTLINE & DIMENSIONS**



## **PART NUMBERING**

