

14 pin Dual-in-Line

- Frequency range 50.01MHz to 200MHz
- LVCMOS Output
- Supply Voltage 3.3 VDC
- High Q fundamental mode crystal
- Low jitter multiplier circuit
- Low unit cost





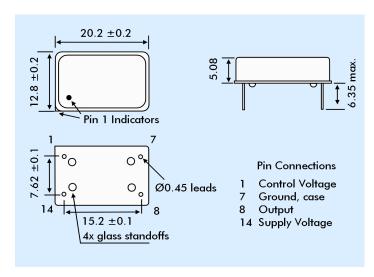
DESCRIPTION

GV14 VCXOs, are packaged in an industry-standard, 14 pin Dual in Line package. The VCXO incorporates a high Q fundamental mode crystal and a low jitter multiplier circuit.

SPECIFICATION

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Frequency Range:		50.01MHz to 200.0MHz	
Supply Voltage:		3.3 VDC ±5%	
Output Logic:		LVCMOS	
Integrated Phase Jit	ter:	2.3ps typical, 4.0ps maximum (for 155.250MHz)	
Period Jitter RMS:		4.0ps typical (for 155.250MHz)	
Period Jitter Peak to	peak:	27.0ps typical (for 155.250MHz)	
Phase Noise:		See table below	
Initial Frequency Acc	curacy:	Tune to the nominal frequency with Vc= 1.65 ±0.2VDC	
Output Voltage HIG	H (1):	90% Vdd minimum	
Output Voltage LOV	V (0):	10% Vdd maximum	
Pulling Range:	• •	From ±30ppm to ±150ppm	
Temperature Stabilit	ty:	See table	
Output Load:		15pF	
Start-up Time:		10ms maximum, 5ms typical	
Duty Cycle:		50% ±5% measured at 50% Vdd	
Rise/Fall Times:		1.2ns typical (15pF load)	
Current Consumption:		25mA maximum (15pF load)	
Linearity:		10% maximum, 6% typical	
Modulation Bandwid	dth:	25kHz minimum	
Input Impedance:		2 MΩ minimum	
Slope Polarity:		Monotonic and Positive. (An	
(Transfer function)		increase of control voltage	
		always increases output	
		frequency.)	
Storage Temperatur	e:	-50° to +100°C	
Ageing:		±5ppm per year maximum	
Enable/Disable (Tristate):		Not available (4 pad package)	
RoHS Status:		Fully compliant	

OUTLINE & DIMENSIONS



PHASE NOISE

Offset	Frequency 155.25MHz
10Hz	-65dBc/Hz
100Hz	-95dBc/Hz
1kHz	-120dBc/Hz
10kHz	-128dBc/Hz
100kHz	-122dBc/Hz
1MHz	-120dBc/Hz
10MHz	-140dBc/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

If non-standard frequency stability is required Use '1' followed by stability, i.e. 120 for ±20ppm

