

- 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

GF42 VCXOs, are packaged in an industry-standard, 4 pad, 11.4mm x 9.6mm x 2.5mm SMD package. GF42 VCXOs provide excellent phase jitter performance, less than 1ps.

SPECIFICATION

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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:	60k $Ω$ 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		

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		

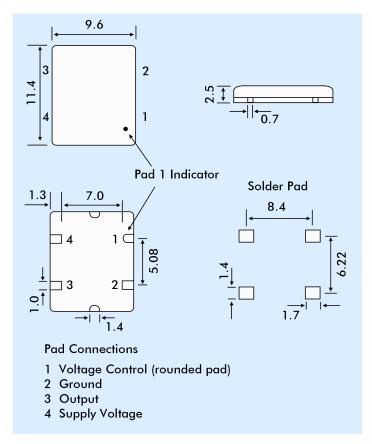
Use 'I' followed by stability, i.e. I20 for ±20ppm

11.4 x 9.6 x 2.5mm 4 pad SMD





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

PART NUMBERING

