EURO QUARTZ

G534 VCXO

625.0kHz ~ 50.0MHz

CMOS SMD 5 x 3.2 x 1.2mm, 4 pad

- Frequency range 0.625MHz to 50.0MHz
- CMOS/TTL Output
- Supply Voltage 5.0 V or 3.3 VDC
- Integrated Phase Jitter 1ps typical
- Pull range from ±30ppm to ±150ppm

DESCRIPTION

G534 VCXOs, are packaged in a miniature 5mm x 3.2mm x 1.2mm 4 pad SMD package. Typical phase jitter for G series VCXOs is <1ps, output CMOS/TTL. G series VCXOs use fundamental mode crystal osccillators. Applications include phase lock loop, SONET/ATM, settop boxes, MPEG, audio/video modulation, video game consoles and HDTV.

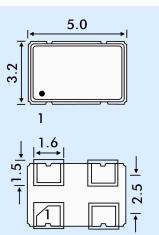
SPECIFICATION

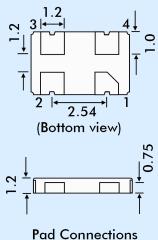
Frequency Range			
Vdd = +3.3VDC:	0.625MHz to 50.0MHz		
Vdd = +5.0VDC:	1.0MHz to 50.0MHz		
Supply Voltage:	+3.3 VDC ±5% or +5.0VDC±5%		
Output Logic:	TTL/HCMOS		
Integrated Phase Jitter:	1.0ps maximum 12kHz to 20MHz		
Period Jitter RMS:	2.0ps typical		
Period Jitter Peak to Peak:	14ps maximum		
Phase Noise:	See table below		
Initial Frequency Accuracy			
Tune to the nominal frequency with:			
+3.3VDC: ,	$Vc = 1.65V \pm 0.2V$		
+5.0 VDC:	$Vc = 2.5V \pm 0.2V$		
Output Voltage HIGH (1):	90% Vdd minimum		
Output Voltage LOW (0):	10% Vdd maximum		
Control Voltage Centre			
+3.3VDC:	1.65V		
+5.0VDC:	2.5V		
Control Voltage Range			
+3.3VDC:	0.3V to 3.0V		
+5.0VDC:	0.5V to 4.5V		
Pulling Range			
+3.3VDC	±80ppm to ±120ppm (standard)		
+5.0VDC:	±80ppm to ±150ppm		
	(±200ppm available)		
Temperature Stability:	See table		
Output Load:	CMOS = 15pF, TTL = 2 gates		
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:	10 to 45mA, frequency		
-	dependent		
Linearity:	10% maximum, 6% typical		
Modulation Bandwidth:	10kHz minimum		
Input Impedance:	1 M 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		
RoHS Status:	Fully compliant		
	, ,		

PHASE NOISE

Offset	Frequency 27.0MHz	
10Hz	-70dBc/Hz	
100Hz	-105dBc/Hz	
1kHz	-132dBc/Hz	
10kHz	-142dBc/Hz	
1MHz	-150dBc/Hz	

OUTLINE & DIMENSIONS





Top View (Solder Pad)

Pad Connections

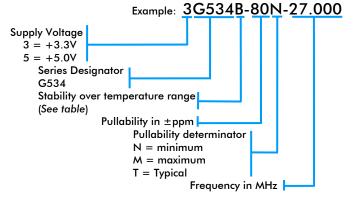
- 1 Voltage Control
- 2 Ground
- 3 Output
- 4 Supply Voltage

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 from open stability is required		

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

PART NUMBERING



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