

## GV576 VCXOs

# High Frequency 7 x 5 x 1.8mm SMD CMOS

- Frequency range 50.1MHz to 200.0MHz
- **CMOS/TTL Output**
- Supply Voltage 3.3 VDC
- **Integrated Phase Jitter 2.3ps typical**



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- Low-cost unit

#### **GENERAL SPECIFICATION**

Model	:
Techn	ology:

Period Jitter RMS: Period Jitter Peak to Peak:

Phase Noise: **Current Consumption:** Rise/Fall Times:

Frequency Stability: Frequency Deviation Range: Load: Start-up Time: Duty Cycle: Linearity: Modulation Bandwidth: Input Impedance: **Slope Polarity:** 

#### Ageing:

Enable/Disable:

'GV' Series High Q fundamental crystal with low jitter multiplier circuit LVCMOS 50.01MHz to 200.0MHz  $+3.3V \pm 5\%$  (Part code = '3') 90% Vdd min. 10% Vdd max. 2.3ps typical, 4ps max. (for 155.520MHz) 4.0ps typical 27ps typical (with decoupling capacitor Vdd and ground) See table 25mA max. 2.4ns typical 0.3V~3.0V, 15pF load See table ±80ppm (standard) 15pF 10ms max., 5ms typical 50%±5% measured at 50% Vdd 6% typical, 10% max. 25kHz min.  $2M\Omega$  min. Monotonic and positive (An increase of control voltage increases output frequency.) ±3ppm max. first year, ±2ppm/year thereafter Enable high. No connection or Vdd-0.5V min. is applied to E/D pad to enable output. Ground +0.5V max. to disable output





#### **OUTLINE AND DIMENSIONS**



- No connection 5
- 6 Supply Voltage

#### PHASE NOISE at 155.520MHz

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

#### FREQUENCY STABILITY OVER TEMPERATURE

Frequency Stability over Operating Temp. Range*	±25ppm	±50ppm	±100ppm
Commercial -10° to +70°C	А	В	с
Industrial -40 to +85°C	D	E	F

\* If non-standard temperature stability is required enter the desired stability in ppm after either 'C' (-10° to +70°) or 'l' (-40° to +85°C) Example:  $C20' = \pm 20$  ppm over -10 to  $\pm 70^{\circ}$ C





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### CMOS/TTL TEST CIRCUIT



#### PART NUMBER SCHEDULE

Frequency in MHz



#### TRANSFER FUNCTION

Typical response of 5G14-C-150N-27.000 (at 25°C, positive transfer)

