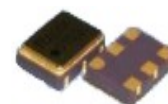


- High Q fundamental mode crystal
- Low jitter multiplier circuit
- Frequency range 50.01MHz to 200MHz
- LVC MOS Output
- Supply Voltage 3.3 VDC



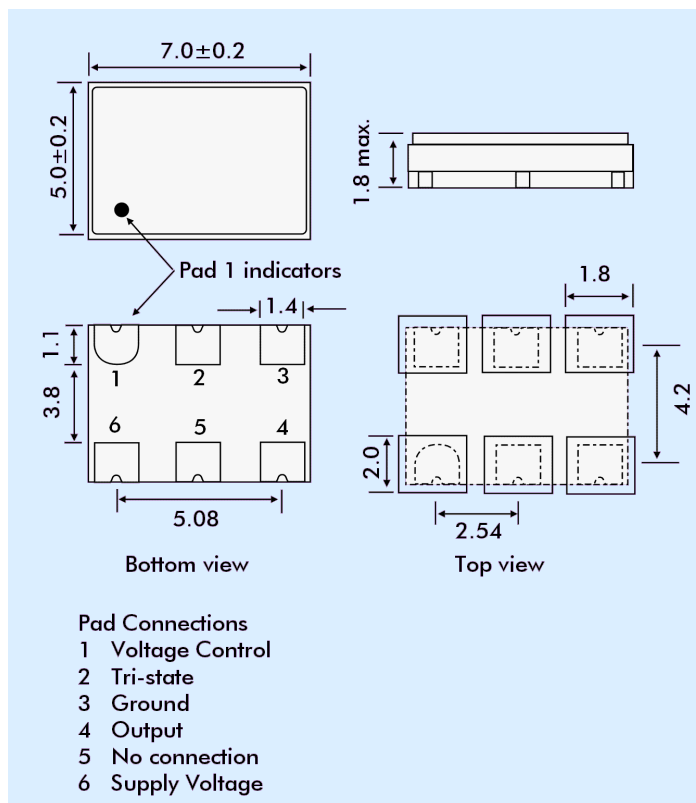
### DESCRIPTION

GV576 VCXOs are packaged in the industry-standard, 6 pad, 7mm x 5mm SMD package. The VCXOs incorporate a high Q fundamental mode crystal and a low jitter multiplier circuit.

### SPECIFICATION

Frequency Range:	50.01MHz to 200.0MHz
Supply Voltage:	3.3 VDC $\pm 5\%$
Output Logic:	LVC MOS
Integrated Phase Jitter:	2.3ps typical, 4.0ps maximum (for 155.520MHz)
Period Jitter RMS:	4.0ps typical (for 155.520MHz)
Period Jitter Peak to peak:	27.0ps typical (for 155.520MHz)
Phase Noise:	See table below
Initial Frequency Accuracy:	Tune to the nominal frequency with $V_c = 1.65 \pm 0.2VDC$
Output Voltage HIGH (1):	90% Vdd minimum
Output Voltage LOW (0):	10% Vdd maximum
Pulling Range:	From $\pm 30ppm$ to $\pm 150ppm$
Temperature Stability:	See table
Output Load:	15pF
Start-up Time:	10ms maximum, 5ms typical
Duty Cycle:	50% $\pm 5\%$ measured at 50% Vdd
Rise/Fall Times:	1.2ns typical (15pF load)
Current Consumption:	40mA maximum (15pF load)
Linearity:	6% typical, 10% maximum
Modulation Bandwidth:	25kHz minimum
Input Impedance:	2 M $\Omega$ minimum
Slope Polarity:	Monotonic and Positive. (An increase of control voltage always increases output frequency.)
Storage Temperature:	-50° to +100°C
Ageing:	$\pm 3ppm$ 1st year maximum, $\pm 2ppm$ /year thereafter
Enable/Disable (Tristate):	Pads 2 or 5, Enable high or 70% Vdd min applied to Tri-state pad to enable output. 30% Vdd max. to disable output (high impedance)
RoHS Status:	RoHS Compliant

### OUTLINE & DIMENSIONS



### PHASE NOISE

Offset	Frequency 155.52MHz
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 $\pm ppm$	Temp. Range
A	25	0°~+70°C
B	50	0°~+70°C
C	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  $\pm 20ppm$

### PART NUMBER SCHEDULE

