



PAD	CONNECTION
1	Not connected or Enable/Disable
2	Freq adjustment
3	Not connected
4	Ground
5	Not connected
6	Output 2 or Not connected
7	Output 1
8	Internal test
9	Supply
10	Not connected

Scale 2:1

Features

- ▶ PECL squarewave
- ▶ Frequencies up to 821MHz
- ▶ Choice of stability & configuration
- ▶ Compact SM ceramic package
- ▶ Industrial temperature range option

Standard Frequencies

Frequencies in MHz	
125.0000	155.5200
139.2640	622.0800

Other frequencies available. Please consult our sales office.

Specifications

Parameters	Variant		Option Codes
	GV93-5	GV93-6	
Frequency range: 120 ~ 137MHz 144 ~ 168MHz 174 ~ 205MHz 237 ~ 275MHz 288 ~ 336MHz 348 ~ 410MHz 474 ~ 550MHz 576 ~ 672MHz 696 ~ 821MHz	■	■	
Frequency adjustment: ±75ppm min ~ ±140ppm max +2.5V ±2.0V, <10% linearity > 50kΩ input impedance at <10kHz	■	■	
Operating temperature range: 0 to +70°C -40 to +85°C	■	■	
Frequency stability: ±50ppm ±100ppm ±20ppm	□	□	2 3 4
Storage temperature range: -55 to +125°C	■	■	
Supply voltage (V_{DD}): +5.0V (±5%)	■	■	
Supply current: 100mA max	■	■	
Output waveform: PECL squarewave (open emitter output requires a pull-down resistor)	■	■	
Logic levels: '0' level = 2.9V min, 3.4V max '1' level = 4.0V min, 4.5V max	■	■	
Waveform symmetry: 45:55 at 50%V _{DD}	■	■	
Rise / fall time: 750ps max	■	■	
Jitter: 10ps RMS max	■	■	
Phase noise: -100dBc/Hz typ @ 10kHz	■	■	
Connection options: Pad 1 NC, Pad 6 NC Pad 1 NC, Pad 6 complementary o/p Pad 1 E/D, Pad 6 NC Pad 1 E/D, Pad 6 complementary o/p	□	□	0 1 2 3

■ Standard. □ Optional - Please specify required code(s) when ordering

Enable / Disable Function

Input (pin 1)	Output (pin 7)	Comp o/p (pin 6)
Open 1.5V min 0.5V max	Disabled (low) Disabled (low) Enabled	Disabled (high) Disabled (high) Enabled

Ordering Information

Product variant + stability option code + connection option code + frequency

eg: **GV93-541** 0+70°C, ±20ppm, pin 1 NC, pin 6 comp o/p

GV93-632 -40+85°C, ±100ppm, pin 1 E/D, pin 6 NC