



## Features

- **5 ECL gate output, ECL 10KH compatible**
- **Single or complementary dual output**
- **Negative or positive power supply**
- **Enable / disable tristate option**

## Pad Connections

Pad	Connections	
	GXO-E93NS Neg supply, single output	GXO-E93ND Neg supply, dual output
1	NC or Enable/disable	Output 2
2	Not connected	Not connected
3	Supply (-ve)	Supply (-ve)
4	Output	Output 1
5	Not connected	Not connected
6	Ground	Ground
	GXO-E93PS Pos supply, single output	GXO-E93PD Pos supply, dual output
1	NC or Enable/disable	Output 2
2	Not connected	Not connected
3	Ground	Ground
4	Output	Output 1
5	Not connected	Not connected
6	Supply (+ve)	Supply (+ve)

## Specifications

**GXO-E93NS: Negative supply, single output**

**GXO-E93ND: Negative supply, dual output**

**GXO-E93PS: Positive supply, single output**

**GXO-E93PD: Positive supply, dual output**

## Specifications

Parameters	Variant				Option Codes
	NS	ND	PS	PD	
<b>Frequency range:</b> 30.0 ~ 200MHz	■	■	■	■	
<b>Frequency stability:</b> ±100ppm ±50ppm	■ □	■ □	■ □	■ □	B
<b>Operating temperature range:</b> -10 to +70°C	■	■	■	■	
<b>Storage temperature range:</b> -55 to +125°C	■	■	■	■	
<b>Supply voltage (V<sub>DD</sub>):</b> -5.2V (±5%) +5.0V (±5%)	■	■	■	■	
<b>Supply current (max):</b> 50mA (30.0 ~ 170MHz) 60mA (30.0 ~ 170MHz) 70mA (170 ~ 200MHz)	■ ■ ■	■ ■ ■	■ ■ ■	■ ■ ■	
<b>Driving ability:</b> 5 ECL gates	■	■	■	■	
<b>Logic levels:</b> '0' level = -1.6V max '1' level = -0.98V min '0' level = +3.42V max '1' level = +4.0V min	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	■ ■ ■ ■	
<b>Start up time:</b> 10ms max	■	■	■	■	
<b>Rise / fall time (20 ~ 80% V<sub>p,p</sub>):</b> 2.0ns (30.0 ~ 200MHz)	■	■	■	■	
<b>Waveform symmetry:</b> 40:60 max	■	■	■	■	
<b>Output:</b> Single output Complementary Dual output	■ ■	■ ■	■ ■	■ ■	
<b>Enable / disable function:</b> None (pad 1 NC) Tristate (control via pad 1)	■ □	■ □	■ □	■ □	E

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

## Ordering Information

Product name + variant + option codes (if any) + frequency

eg: **GXO-E93PD 120MHz**

**GXO-E93NS/BE 160MHz** ±50ppm, Enable / disable

Option code X (eg GXO-E93NS/X) denotes a custom spec.