



Scale 1:1

### Features

- ECL 10KH compatible**
- 5 ECL gate output**
- Single or complementary dual output**
- Negative or positive power supply**
- Fast rise / fall time**

### Pin Connections

Pin	Connections	
	GXO-E90NS Neg supply, single output	GXO-E90ND Neg supply, dual output
<b>1</b>	Not connected	Output 1
<b>7</b>	Supply (-ve)	Supply (-ve)
<b>8</b>	Output	Output 2
<b>14</b>	Ground	Ground
	GXO-E90PS Pos supply, single output	GXO-E90PD Pos supply, dual output
<b>1</b>	Not connected	Output 1
<b>7</b>	Ground	Ground
<b>8</b>	Output	Output 2
<b>14</b>	Supply (+ve)	Supply (+ve)

### Specifications

**GXO-E90NS: Negative supply, single output**

**GXO-E90ND: Negative supply, dual output**

**GXO-E90PS: Positive supply, single output**

**GXO-E90PD: Positive supply, dual output**

Parameters	Variant				Option Codes
	NS	ND	PS	PD	
<b>Frequency range:</b> 30.0 ~ 256MHz	■	■	■	■	
<b>Frequency stability:</b> ±100ppm	■	■	■	■	
<b>Operating temperature range:</b> -10 to +70°C	■	■	■	■	
<b>Storage temperature range:</b> -55 to +125°C	■	■	■	■	
<b>Supply voltage:</b> -5.2V (±5%) +5.0V (±5%)	■	■	■	■	
<b>Supply current (max):</b> 40mA (30.0 ~ 170MHz) 50mA (>170 ~ 256MHz) 50mA (30.0 ~ 170MHz) 60mA (>170 ~ 256MHz)	■	■	■	■	
<b>Driving ability:</b> 5 ECL gates	■	■	■	■	
<b>Logic levels:</b> '0' level = -1.6V max '1' level = -1.0V min '0' level = +3.42V max '1' level = +4.0V min	■	■	■	■	
<b>Start up time:</b> 10ms max	■	■	■	■	
<b>Rise / fall time:</b> 2.0ns (30.0 ~ 170MHz) 1.5ns (>170 ~ 256MHz)	■	■	■	■	
<b>Waveform symmetry:</b> 40:60 max @ 50% V <sub>p,p</sub>	■	■	■	■	
<b>Output:</b> Single output Complementary Dual output	■	■	■	■	

■ Standard.

### Ordering Information

Product name + variant + frequency

eg: **GXO-E90NS 200MHz**

Option code X (eg GXO-E90NS/X) denotes a custom spec.