

Status: **Active**

85314I-09

Low Skew, 1-To-5, Differential-To-2.5V, 3.3V LVPECL Fanout Buffer

The 85314I-09 is a low skew, high performance 1-to-5 Differential-to-2.5V/3.3V LVPECL Fanout Buffer and a member of the HiPerClockS[™] family of High Performance Clock Solutions from IDT. The 85314I-09 has two selectable clock inputs. The CLK0, nCLK0 pair can accept most standard differential input levels. The single-ended CLK1 can accept LVCMOS or LVTTL input levels. The clock enable is internally synchronized to eliminate runt clock pulses on the outputs during asynchronous assertion/deassertion of the clock enable pin. Guaranteed output and part-to-part skew characteristics make the 85314I-09 ideal for those applications demanding well defined performance and repeatability.

Features

- Five differential 2.5V/3.3V LVPECL outputs
- Selectable differential CLK0, nCLK0 or LVCMOS inputs
- CLK0, nCLK0 pair can accept the following differential input levels: LVPECL, LVDS, LVHSTL, HCSL, SSTL
- CLK1 can accept the following input levels: LVCMOS or LVTTL
- Maximum output frequency: 700MHz
- Translates any single-ended input signal to 3.3V LVPECL levels with resistor bias on nCLK input
- Output skew: 30ps (maximum), TSSOP package50ps (maximum), SOIC package
- Part-to-part skew: 350ps (maximum)
- Propagation delay: 1.8ns (maximum)
- RMS phase jitter @ 155.52MHz (12kHz - 20MHz):0.05ps (typical)
- LVPECL mode operating voltage supply range:VCC = 2.375V to 3.8V, VEE = 0V
- -40°C to 85°C ambient operating temperature
- Available in both standard (RoHS 5) and lead-free (RoHS 6) packages

Product Specification

ADDITIVE PHASE JITTER RMS (PS)	OUTPUT SKEW (PS)	CORE VOLTAGE (V)	INPUTS (#)	INPUT SIGNAL	INPUT FREQ (MHZ)	OUTPUT VOLTAGE (V)	OUTPUTS (#)	OUTPUT TYPE	OUTPUT FREQ RANGE (MHZ)
0.05	30	2.5, 3.3	2	LVDS, HSTL, SSTL, HCSL, LVPECL	0.000000 - 700.000000	2.5, 3.3	5	LVPECL	0.000000 - 700.000000

Product Options

ORDERABLE PART ID	PART STATUS	PKG. CODE	PKG. TYPE	LEAD COUNT (#)	TEMP. GRADE	PB (LEAD) FREE	ORDER
85314BGI-09LF	Active	PGG20	TSSOP	20	I	Y	Check Inventory
85314BGI-09LFT	Active	PGG20	TSSOP	20	I	Y	Check Inventory

Documents

There are no public documents available for this product. [Click here to request documentation.](#)

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