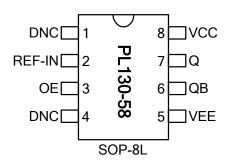


FEATURES

- Input clock frequency ≤266 MHz
- JEDEC standard Differential LVPECL output
- 70mA typical power supply current
- 300ps Max. Rise/Fall time
- 740ps input propagation delay
- LVCMOS and LVTTL Input compatible
- Single 2.5V \pm 5% or 3.3V \pm 10% power supply with V_{EE}=0V
- Available in 8 pin SOP Green/RoHS compliant Package

PIN CONFIGURATION

(TOP VIEW)

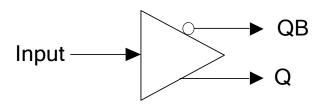


DESCRIPTION

The PL130-58 is a low cost, high performance, high speed, translator buffer that produces a pair of differential LVPECL outputs from CMOS input. Outputs are JEDEC standard LVPECL signals.

The device is targeted for Backplane buffering, data distribution, Fibre Channel and many other applications.

BLOCK DIAGRAM





PIN DESCRIPTIONS

Name	SOP-8L	Туре	Description	
DNC	1, 4	-	Do Not Connect	
REF-IN	2	Input	Reference input signal. The frequency of this signal will be reproduced at the output (after translation to PECL level).	
OE	3	Input	Output enable ('1' for enable). Internal pull-up (default is '1').	
VEE	5	Power	Power Ground.	
QB	6	Output	PECL Complementary output.	
Q	7	Output	PECL True output.	
VCC	8	Power	Positive Power Supply.	

ELECTRICAL SPECIFICATIONS

1. Absolute Maximum Ratings

PARAMETERS	SYMBOL	MIN.	MAX.	UNITS	
Supply Voltage	V_{DD}		4.6	V	
Input Voltage, dc	Vı	-0.5	V _{DD} +0.5	٧	
Output Voltage, dc	Vo	-0.5	V _{DD} +0.5	V	
Storage Temperature	Ts	-65	150	°C	
Ambient Operating Temperature*	T _A	-40	85	°C	
Junction Temperature	T _J		110	°C	
Lead Temperature (soldering, 10s)			260	°C	

Exposure of the device under conditions beyond the limits specified by Maximum Ratings for extended periods may cause permanent damage to the device and affect product reliability. These conditions represent a stress rating only, and functional operations of the device at these or any other conditions above the operational limits noted in this specification is not implied.

2. AC Specifications

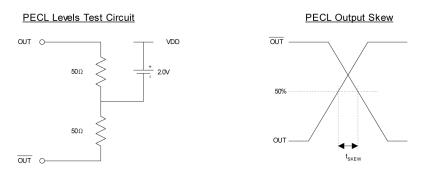
PARAMETERS	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Input Frequency				266	MHz
Output Frequency				266	MHz

^{*} Note: Operating Temperature is guaranteed by design for all parts (COMMERCIAL and INDUSTRIAL), but tested for COMMERCIAL grade only.

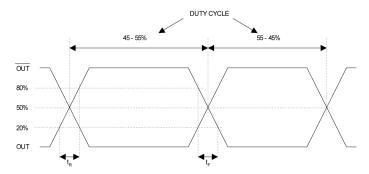


6. PECL Switching Characteristics

PARAMETERS	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Clock Rise Time	t _r	@20/80% of output waveform			300	ps
Clock Fall Time	t _f	@80/20% of output waveform			300	ps

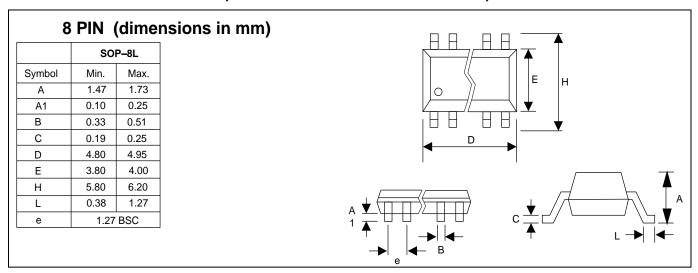


PECL Transistion Time Waveform





PACKAGE INFORMATION (GREEN PACKAGE COMPLIANT)



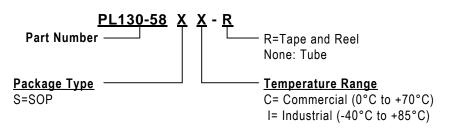
ORDERING INFORMATION

For part ordering, please contact our Sales Department:

2180 Fortune Drive, San Jose, CA 95131, USA Tel: (408) 944-0800 Fax: (408) 474-1000

PART NUMBER

The order number for this device is a combination of the following: Part number, Package type and Operating temperature range



<u>Marking</u>	Package Option
P130-58	SOP-8L - Tape and Reel
SC	
LLLLL	SOP-8L - Tube
	P130-58

*Note: LLLLL designates lot number

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