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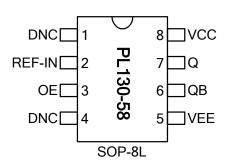


## **FEATURES**

- 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<sub>EE</sub>=0V
- Available in 8 pin SOP Green/RoHS compliant Package

### **PIN CONFIGURATION**

(TOP VIEW)

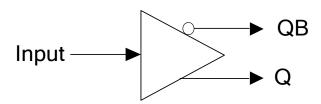


#### **DESCRIPTION**

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	Type	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 <sub>DD</sub> +0.5	٧	
Output Voltage, dc	Vo	-0.5	V <sub>DD</sub> +0.5	V	
Storage Temperature	Ts	-65	150	°C	
Ambient Operating Temperature*	T <sub>A</sub>	-40	85	°C	
Junction Temperature	T <sub>J</sub>		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

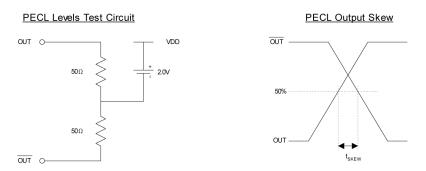
PARAMETERS	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Input Frequency				266	MHz
Output Frequency				266	MHz

<sup>\*</sup> Note: Operating Temperature is guaranteed by design for all parts (COMMERCIAL and INDUSTRIAL), but tested for COMMERCIAL grade only.

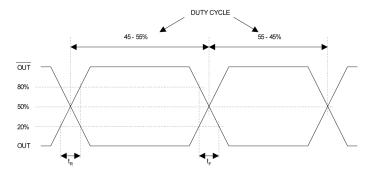


# 6. PECL Switching Characteristics

PARAMETERS	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Clock Rise Time	t <sub>r</sub>	@20/80% of output waveform			300	ps
Clock Fall Time	t <sub>f</sub>	@80/20% of output waveform			300	ps

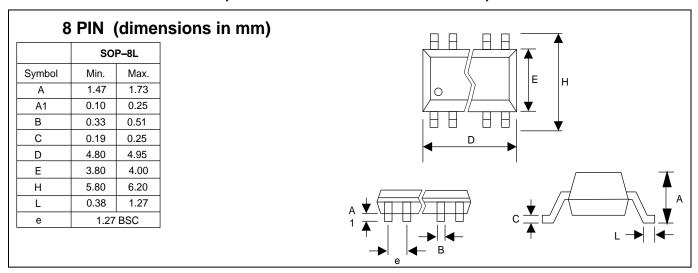


PECL Transistion Time Waveform





## PACKAGE INFORMATION (GREEN PACKAGE COMPLIANT)



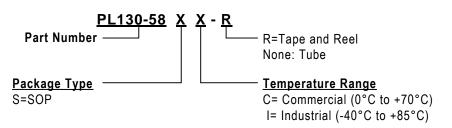
#### ORDERING INFORMATION

## 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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