

# F100311

## Low Skew 1:9 Differential Clock Driver

### General Description

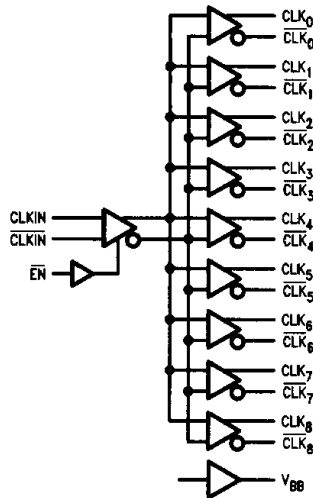
The F100311 contains nine low skew differential drivers, designed for generation of multiple, minimum skew differential clocks from a single differential input (CLKIN,  $\overline{\text{CLKIN}}$ ). If a single-ended input is desired, the  $V_{\text{BB}}$  output pin may be used to drive the remaining input line. A HIGH on the enable pin ( $\overline{\text{EN}}$ ) will force a LOW on all of the  $\text{CLK}_n$  outputs and a HIGH on all of the  $\overline{\text{CLK}}_n$  output pins. A LOW on  $\overline{\text{EN}}$  will return control of the  $\text{CLK}_n/\overline{\text{CLK}}_n$  outputs back to the CLKIN/ $\overline{\text{CLKIN}}$  inputs.

The skew specifications on the F100311 are fully tested and guaranteed.

### Features

- Low output to output skew ( $\leq 75$  ps)
- 2000V ESD protection
- 1:9 low skew clock driver
- Differential inputs and outputs

### Logic Symbol



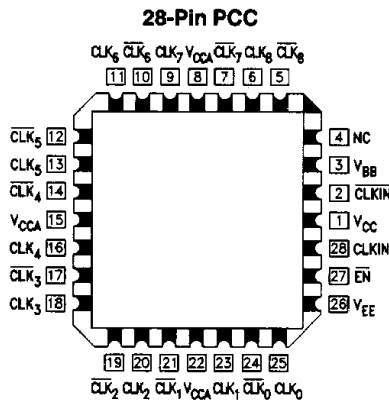
TL/F/10648-1

Pin Names	Description
CLKIN, $\overline{\text{CLKIN}}$	Differential Clock Inputs
EN	Enable
CLK <sub>0-8</sub> , $\overline{\text{CLK}}_{0-8}$	Differential Clock Outputs
V <sub>BB</sub>	V <sub>BB</sub> Output
NC	No Connect

### Truth Table

CLKIN	$\overline{\text{CLKIN}}$	EN	CLK <sub>n</sub>	$\overline{\text{CLK}}_n$
L	H	L	L	H
H	L	L	H	L
X	X	H	L	H

### Connection Diagram



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