

NLB6211

NEL
SELIC

Triple 2 fan-out Buffer

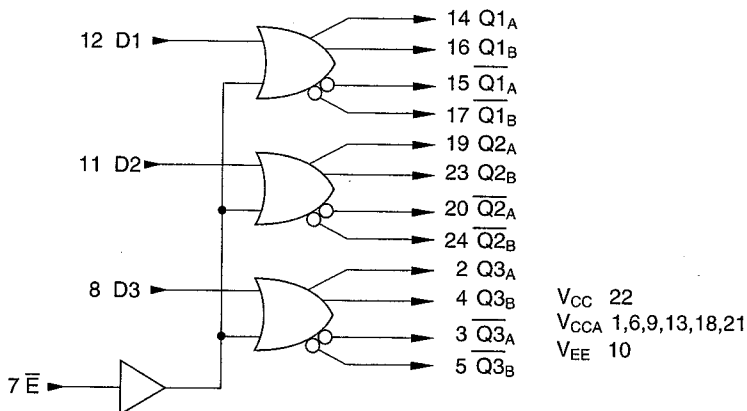
Description

The NLB6211 is an ultra high-speed monolithic triple fan-out buffers with 2 differential outputs.

Features

- Typical AC characteristics
Data rate up to 3Gb/s.
 $t_r=210ps$
 $t_f=200ps$
- Internal pull down resistors on input pins to maintain logic LOW level with the pins left open.
- ECL 100K compatible I/O levels.
- Differential outputs.

Logic Symbol



Truth table

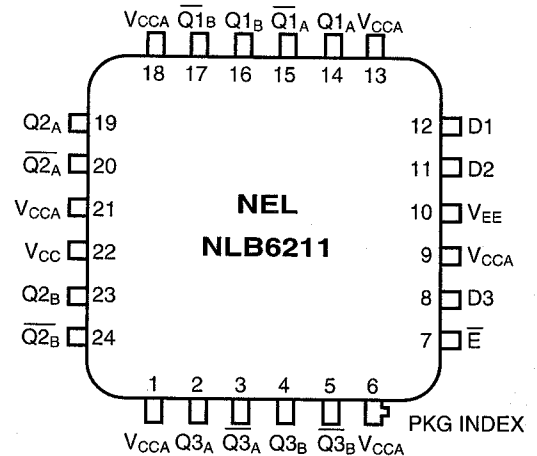
Input		output	
$\overline{E}$	D_n	Q_n	$\overline{Q_n}$
L	L	L	H
L	H	H	L
H	X	H	L

H : High voltage level

L : Low voltage level

X : Arbitrary

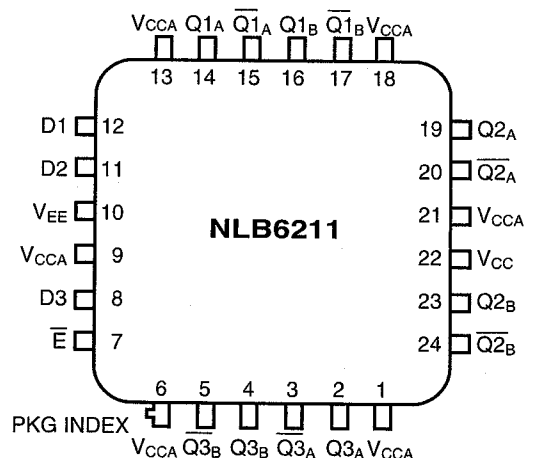
Pin Assignment Top View (Ceramic)



Pin Name

D_n	Data inputs
$Q_{nA}, \overline{Q_{nA}}$	Data outputs
$Q_{nB}, \overline{Q_{nB}}$	Data outputs
$\overline{E}$	Data enable inputs
V_{CC}	Circuit GND
V_{CCA}	Circuit GND for outputs
V_{EE}	-4.5V

Back View (Metal Cap)



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DC Characteristics

$V_{EE} = -4.5V \pm 0.3V$, $V_{CC} = V_{CCA} = GND$, $V_{TT} = -2V$, $T_C = 0^{\circ}C$ to $+85^{\circ}C$, $R_T = 50\Omega$ to V_{TT}

Characteristics	Symbol	Min.	Typ.	Max.	Unit
Power supply current	I_{EE}	65	115	150	mA

AC Characteristics

$V_{EE} = -4.5V \pm 0.3V$, $V_{CC} = V_{CCA} = GND$, $V_{TT} = -2V$, $T_C = 0^{\circ}C$ to $+85^{\circ}C$, $R_T = 50\Omega$ to V_{TT}

Characteristics	Symbol	Min.	Typ.	Max.	Unit
Propagation delay to output	t_{PLH}		380	510	ps
	t_{PHL}		370	490	
Rise time 20% to 80%	t_r		210	280	
Fall time 80% to 20%	t_f		200	270	

Typical Output Voltage Swing

$V_{EE} = -4.5V$, $V_{CC} = V_{CCA} = GND$, $V_{TT} = -2V$, $R_T = 50\Omega$ to V_{TT}

