

# 5.0 V ECL 1:2 Differential

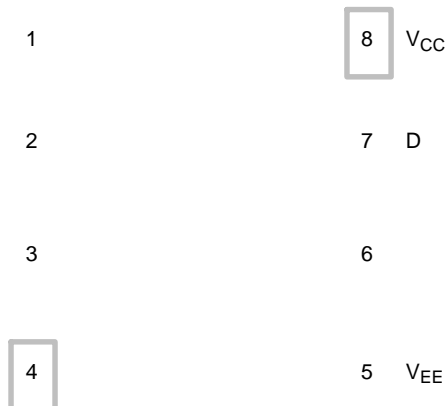
## Fano Buffer

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### MC10EL11, MC100EL11

#### Features

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**MC10EL11, MC100EL11**

# MC10EL11, MC100EL11

**Table 4. 10EL SERIES PECL DC CHARACTERISTICS** ( $V_{CC} = 5.0\text{ V}$ ;  $V_{EE} = 0.0\text{ V}$  (Note 1))

Symbol	Characteristic	-40°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
$I_{EE}$	Power Supply Current		26	31		26	31		26	31	mA
$V_{OH}$	Output HIGH Voltage (Note 2)	3920	4010								



# MC10EL11, MC100EL11

**Table 8. AC CHARACTERISTICS** ( $V_{CC} = 5.0\text{ V}$ ;  $V_{EE} = 0.0\text{ V}$  or  $V_{CC} = 0.0\text{ V}$ ;  $V_{EE} = -5.0\text{ V}$  (Note 1))

Symbol	Characteristic	-40°C			25°C			85°C			Unit
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
f <sub>max</sub>	Maximum Toggle Frequency					1.5					GHz
t <sub>PLH</sub> t <sub>PHL</sub>	Propagation Delay to Output	135	260	385	190	265	340	215	290	365	ps
t <sub>SKEW</sub>	Within-Device Skew (Note 2) Duty Cycle Skew (Note 3)		5			5	20		5	20	ps
t <sub>JITTER</sub>	Random Clock Jitter (RMS)					0.6					ps
V <sub>PP</sub>	Input Swing (Note 4)	150		1000	150		1000	150		1000	mV
t <sub>r</sub> t <sub>f</sub>	Output Rise/Fall Times Q (20% – 80%)	100	225	350	100	225	350	100	225	350	ps

-X-

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⊕ 0. (0.010) ○ ○

-Y-

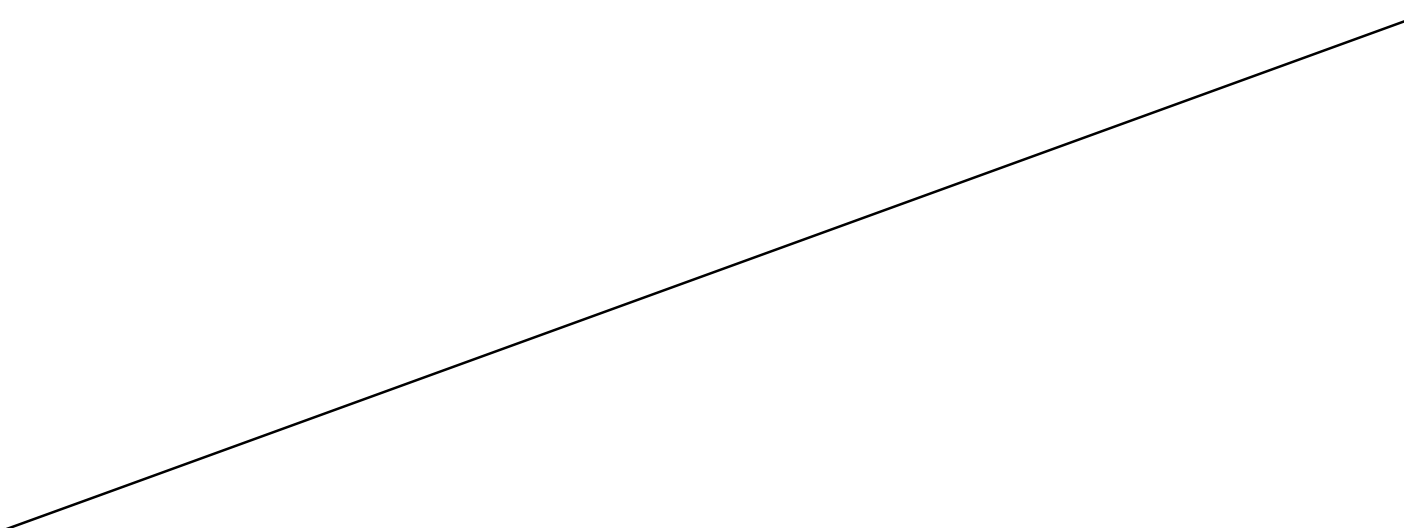
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-Z-

C	1.35	1.75	0.053	0.069
D	0.33	0.51	0.013	0.020
G	1.27 BSC		0.050 BSC	
H	0.10	0.25	0.004	0.010
J	0.19	0.25	0.007	0.010
K	0.40	1.27	0.016	0.050
M	0	8	0	8
N	0.25	0.50	0.010	0.020
S	5.80	6.20	0.228	0.244

0. (0.010) ○ 101100 1.000 0.1 1011. 100 0001.1 1001 1 0( )01.1 100111.1 100000 5.80 6.20 0.228 0.244 1.0 0 1000 0. )





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