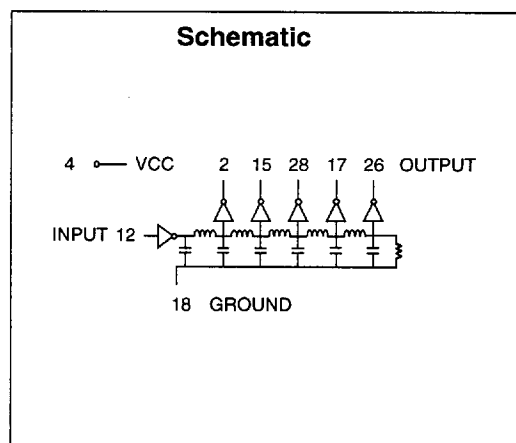


SMD 28 Pin 5 Tap TTL Compatible Active Delay Lines

Delays are $\pm 5\%$ or ± 2 nS \dagger Tap Total		J-Lead P/N	Gull-Wing P/N	Delays are $\pm 5\%$ or ± 2 nS \dagger Tap Total		J-Lead P/N	Gull-Wing P/N
5, 10, 15, 20	25	EP9100	EP9115	20, 40, 60, 80	100	EP9108	EP9123
6, 12, 18, 24	30	EP9101	EP9116	25, 50, 75, 100	125	EP9109	EP9124
7, 14, 21, 28	35	EP9102	EP9117	30, 60, 90, 120	150	EP9110	EP9125
8, 16, 24, 32	40	EP9103	EP9118	35, 70, 105, 140	175	EP9111	EP9126
9, 18, 27, 36	45	EP9104	EP9119	40, 80, 120, 160	200	EP9112	EP9127
10, 20, 30, 40	50	EP9105	EP9120	45, 90, 135, 180	225	EP9113	EP9128
12, 24, 36, 48	60	EP9106	EP9121	50, 100, 150, 200	250	EP9114	EP9129
15, 30, 45, 60	75	EP9107	EP9122				

\dagger Whichever is greater. Delay times referenced from input to leading edges at 25°C, 5.0V, with no load.

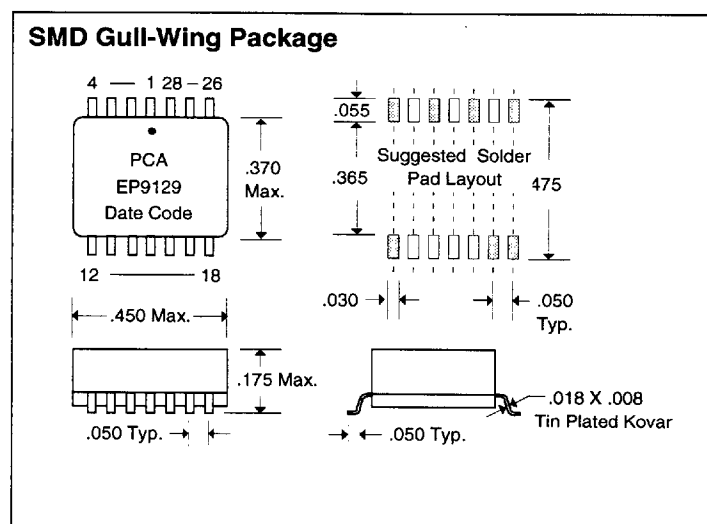
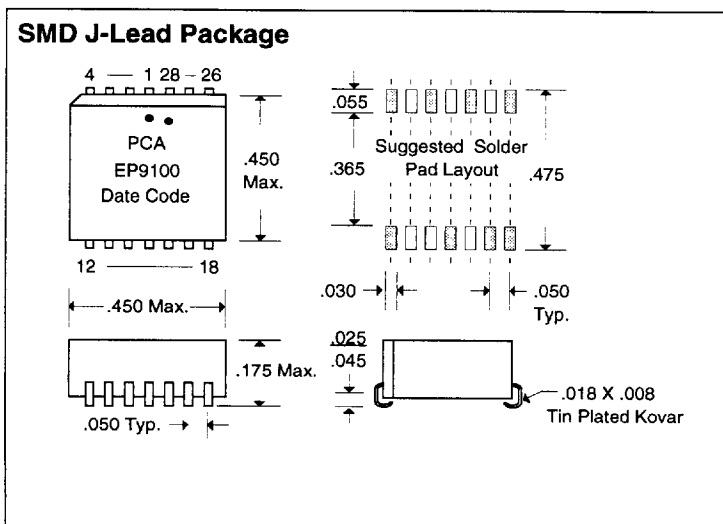
DC Electrical Characteristics		Test Conditions	Min	Max	Unit
V _{OH}	High-Level Output Voltage	V _{CC} = min. I _L = max. I _{OH} = max	2.7		V
V _{OL}	Low-Level Output Voltage	V _{CC} = min. V _{IH} = min. I _{OL} = max		0.5	V
V _{IK}	Input Clamp Voltage	V _{CC} = min. I _I = I _K		-1.2	V
I _{IH}	High-Level Input Current	V _{CC} = max. V _{IN} = 2.7V		50	μA
		V _{CC} = max. V _{IN} = 5.25V		1.0	mA
I _{IL}	Low-Level Input Current	V _{CC} = max. V _{IN} = 0.5V		-2	mA
I _{OS}	Short Circuit Output Current	V _{CC} = max. V _{OUT} = 0.	-40	-100	mA
		(One output at a time)			
I _{CCH}	High-Level Supply Current	V _{CC} = max. V _{IN} = OPEN		75	mA
I _{CCL}	Low-Level Supply Current	V _{CC} = max. V _{IN} = 0		75	mA
T _{RO}	Output Rise Time	T _d ≤ 500 nS (0.75 to 2.4 Volts)		4	nS
N _H	Fanout High-Level Output	V _{CC} = max. V _{OH} = 2.7V		20 TTL LOAD	
N _L	Fanout Low-Level Output	V _{CC} = max. V _{OL} = 0.5V		10 TTL LOAD	



Recommended Operating Conditions		Min	Max	Unit
V _{CC}	Supply Voltage	4.75	5.25	V
V _{IH}	High-Level Input Voltage	2.0		V
V _{IL}	Low-Level Input Voltage		0.8	V
I _{IK}	Input Clamp Current		-18	mA
I _{OH}	High-Level Output Current		-1.0	mA
I _{OL}	Low-Level Output Current		20	mA
PW*	Pulse Width of Total Delay	40		%
d*	Duty Cycle		40	%
T _A	Operating Free-Air Temperature	0	+70	°C

Input Pulse Test Conditions @ 25° C		Unit
E _{IN}	Pulse Input Voltage	3.2 Volts
PW	Pulse Width % of Total Delay	110 %
T _{RI}	Pulse Rise Time (0.75 - 2.4 Volts)	2.0 nS
P _{RR}	Pulse Repetition Rate @ T _d ≤ 200 nS	1.0 MHz
	Pulse Repetition Rate @ T _d > 200 nS	100 KHz
V _{CC}	Supply Voltage	5.0 Volts

*These two values are inter-dependent.



DSD91XXa Rev. A 2/5/96

QAF-CSO1 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches

Tolerances:

Fractional = $\pm 1/32$

.XX = $\pm .030$.XXX = $\pm .010$

■ 6852109 0000576 BT8 ■



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