

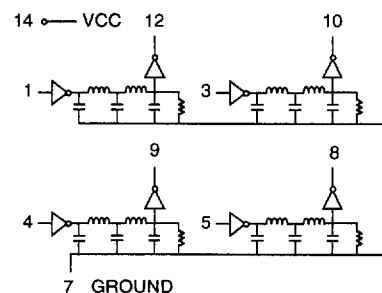
SMD 14 Pin Gull-Wing Quad TTL Compatible Active Delay Modules

DELAY TIME ±5% or ±2 nS†	PART NUMBER	DELAY TIME ±5 or ±2 nS†	PART NUMBER	DELAY TIME ±5% or ±2 nS†	PART NUMBER
5	EPA366-5	16	EPA366-16	35	EPA366-35
6	EPA366-6	17	EPA366-17	40	EPA366-40
7	EPA366-7	18	EPA366-18	45	EPA366-45
8	EPA366-8	19	EPA366-19	50	EPA366-50
9	EPA366-9	20	EPA366-20	55	EPA366-55
10	EPA366-10	21	EPA366-21	60	EPA366-60
11	EPA366-11	22	EPA366-22	65	EPA366-65
12	EPA366-12	23	EPA366-23	70	EPA366-70
13	EPA366-13	24	EPA366-24	75	EPA366-75
14	EPA366-14	25	EPA366-25		
15	EPA366-15	30	EPA366-30		

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

DC Electrical Characteristics					
Parameter	Test Conditions	Min	Max	Unit	
V _{OH}	High-Level Output Voltage	V _{CC} = min. V _{IL} = 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 _{IK}	-1.2V		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. (One output at a time)	-40		mA
I _{CCH}	High-Level Supply Current	V _{CC} = max. V _{IN} = OPEN	150		mA
I _{CCL}	Low-Level Supply Current	V _{CC} = max. V _{IN} = 0	150		mA
T _{RO}	Output Rise Time		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

Schematic

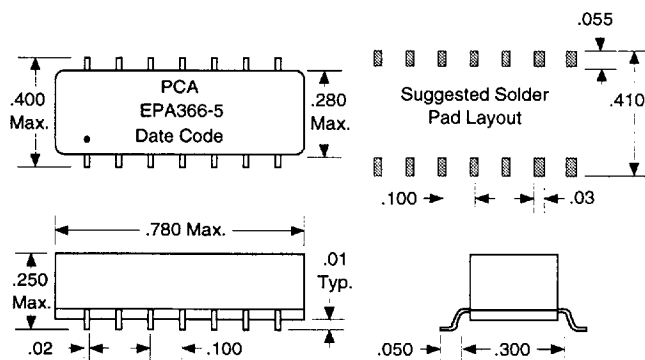


Recommended Operating Conditions		Min	Max	Unit
V _{CC}	Supply Voltage	4.75	5.25	V
V _{IH}	High-Level Input Voltage	2.0		V
V _{IL}	Low-Level Input Voltage		0.8	V
I _{IK}	Input Clamp Current		-18	mA
I _{OH}	High-Level Output Current		-1.0	mA
I _{OL}	Low-Level Output Current		20	mA
PW*	Pulse Width of Total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

*These two values are inter-dependent.

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
PRR	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

Package Dimensions



DSA366 Rev. A 2/5/96

QAF-CS01 Rev. B 8/25/94

Unless Otherwise Noted Dimensions in Inches

Tolerances:
Fractional = ± 1/32
16 .XX = ± .030 .XXX = ± .010



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