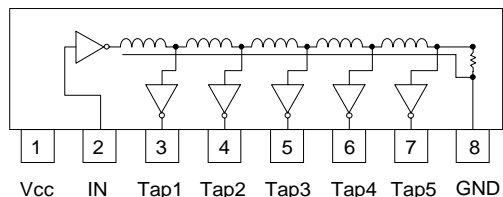


# FSIDM Series FAST / TTL Buffered 5-Tap Delay Modules

- 8-Pin SIP Package
- FAST/TTL Logic Buffered
- 5 Equal Delay Taps
- Operating Temperature Range 0°C to +70°C
- 8-Pin DIP Versions: see FAMDM Series  
14-Pin DIP Versions: see FAIDM Series
- Low Voltage CMOS Versions refer to LVMDM / LVIDM Series

FSIDM 8-Pin SIP Schematic



## Electrical Specifications at 25°C

FAST 5 Tap 8-Pin SIP P/N	Tap Delay Tolerances +/- 5% or 2ns (+/- 1ns <13ns)					Tap-to-Tap (ns)
	Tap 1	Tap 2	Tap 3	Tap 4	Total - Tap 5	
FSIDM-7	3.0	4.0	5.0	6.0	7 ± 1.0	** 1 ± 0.5
FSIDM-9	3.0	4.5	6.0	7.5	9 ± 1.0	** 1.5 ± 0.5
FSIDM-11	3.0	5.0	7.0	9.0	11 ± 1.0	** 2 ± 0.7
FSIDM-13	3.0	5.5	8.0	10.5	13 ± 1.5	** 2.5 ± 1.0
FSIDM-15	3.0	6.0	9.0	12.0	15 ± 1.5	3 ± 1.0
FSIDM-20	4.0	8.0	12.0	16.0	20 ± 2.0	4 ± 1.5
FSIDM-25	5.0	10.0	15.0	20.0	25 ± 2.0	5 ± 2.0
FSIDM-30	6.0	12.0	18.0	24.0	30 ± 2.0	6 ± 2.0
FSIDM-35	7.0	14.0	21.0	28.0	35 ± 2.0	7 ± 2.0
FSIDM-40	8.0	16.0	24.0	32.0	40 ± 2.0	8 ± 2.0
FSIDM-50	10.0	20.0	30.0	40.0	50 ± 2.5	10 ± 2.0
FSIDM-60	12.0	24.0	36.0	48.0	60 ± 3.0	12 ± 2.0
FSIDM-75	15.0	30.0	45.0	60.0	75 ± 3.75	15 ± 2.5
FSIDM-100	20.0	40.0	60.0	80.0	100 ± 5.0	20 ± 3.0
FSIDM-125	25.0	50.0	75.0	100.0	125 ± 6.25	25 ± 3.0
FSIDM-150	30.0	60.0	90.0	120.0	150 ± 7.5	30 ± 3.0
FSIDM-200	40.0	80.0	120.0	160.0	200 ± 10.0	40 ± 4.0
FSIDM-250	50.0	100.0	150.0	200.0	250 ± 12.5	50 ± 5.0
FSIDM-350	70.0	140.0	210.0	280.0	350 ± 17.5	70 ± 5.0
FSIDM-500	100.0	200.0	300.0	400.0	500 ± 25.0	100 ± 10.0

\*\* These part numbers do not have 5 equal taps. Tap-to-Tap Delays reference Tap 1.

## TEST CONDITIONS -- FAST / TTL

- V<sub>CC</sub> Supply Voltage ..... 5.00VDC  
 Input Pulse Voltage ..... 3.20V  
 Input Pulse Rise Time ..... 3.0 ns max.  
 Input Pulse Width / Period ..... 1000 / 2000 ns
1. Measurements made at 25°C
  2. Delay Times measured at 1.50V level of leading edge.
  3. Rise Times measured from 0.75V to 2.40V.
  4. 10pf probe and fixture load on output under test.

## P/N Description

FSIDM - XXX X

74F Buffered 5 Tap Delay  
 Molded Package Series:  
 8-pin SIP: FSIDM  
 Total Delay in nanoseconds (ns)  
 Lead Style: Blank = Thru-hole

Examples: FSIDM-25 = 25ns (5ns per tap)  
 74F, 8-Pin SIP  
 FSIDM-100 = 100ns (20ns per tap)  
 74F, 8-Pin SIP

## OPERATING SPECIFICATIONS

- V<sub>CC</sub> Supply Voltage ..... 5.00 ± 0.25 VDC  
 I<sub>CC</sub> Supply Current ..... 48 mA Maximum  
 Logic "1" Input: V<sub>IH</sub> ..... 2.00 V min., 5.50 V max.  
 I<sub>IH</sub> ..... 20 µA max. @ 2.70V  
 Logic "0" Input: V<sub>IL</sub> ..... 0.80 V max.  
 I<sub>IL</sub> ..... -0.6 mA mA  
 V<sub>OH</sub> Logic "1" Voltage Out ..... 2.40 V min.  
 V<sub>OL</sub> Logic "0" Voltage Out ..... 0.50 V max.  
 P<sub>WI</sub> Input Pulse Width ..... 40% of Delay min.  
 Operating Temperature Range ..... 0° to 70°C  
 Storage Temperature Range ..... -65° to +150°C

## Dimensions in Inches (mm)

