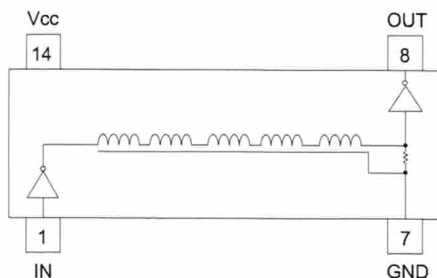


FSDM Series FAST / TTL Buffered Single Output Delay Lines

- 14-Pin Package Commercial and Mil-Grade Versions
- FAST/TTL Logic Buffered
- Operating Temperature Ranges 0°C to +70°C, or -55°C to +125°C
- 8-pin DIP/SMD Versions: FAMDL Series
14-pin DIP/SMD Versions: FAIDL Series

FSDM 14-Pin Schematic



Electrical Specifications at 25°C

Delay Tolerance (ns)	14 Pin DIL TTL Buffered Triple Independent Delays	
	Commercial Part Number	MIL-Grade Part Number
5 ± 1.00	FSDM-5	FSDM3-5M
6 ± 1.00	FSDM-6	FSDM3-6M
7 ± 1.00	FSDM-7	FSDM3-7M
8 ± 1.00	FSDM-8	FSDM3-8M
9 ± 1.00	FSDM-9	FSDM3-9M
10 ± 1.50	FSDM-10	FSDM3-10M
15 ± 2.00	FSDM-15	FSDM3-15M
20 ± 2.00	FSDM-20	FSDM3-20M
25 ± 2.00	FSDM-25	FSDM3-25M
30 ± 2.00	FSDM-30	FSDM3-30M
35 ± 2.00	FSDM-35	FSDM3-35M
40 ± 2.00	FSDM-40	FSDM3-40M
50 ± 2.50	FSDM-50	FSDM3-50M
60 ± 3.00	FSDM-60	FSDM3-60M
70 ± 3.50	FSDM-70	FSDM3-70M
75 ± 3.75	FSDM-75	FSDM3-75M
80 ± 4.00	FSDM-80	FSDM3-80M
100 ± 5.0	FSDM-100	FSDM3-100M
125 ± 6.25	FSDM-125	FSDM3-125M
250 ± 12.5	FSDM-250	FSDM3-250M
500 ± 25.0	FSDM-500	FSDM3-500M
1000 ± 50.0	FSDM-1000	FSDM3-1000

TEST CONDITIONS – FAST / TTL

V_{CC} 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.

OPERATING SPECIFICATIONS

V_{CC} Supply Voltage 5.00 ± 0.25 VDC
 I_{CC} Supply Current 25 mA typ, 48 mA max.
 Logic "1" Input: V_{IH} 2.00 V min., 5.50 V max.
 I_{IH} 20 µA max. @ 2.70V
 Logic "0" Input: V_{IL} 0.80 V max.
 I_{IL} -0.6 mA mA
 V_{OH} Logic "1" Voltage Out 2.40 V min.
 V_{OL} Logic "0" Voltage Out 0.50 V max.
 P_{WI} Input Pulse Width 40% of Delay min.
 Operating Temperature Range 0° to 70°C
 Storage Temperature Range -65° to +150°C

P/N Description

Buffered Triple Delays:

14-pin Com'l: FSDM
 14-pin MIL: FSDM3

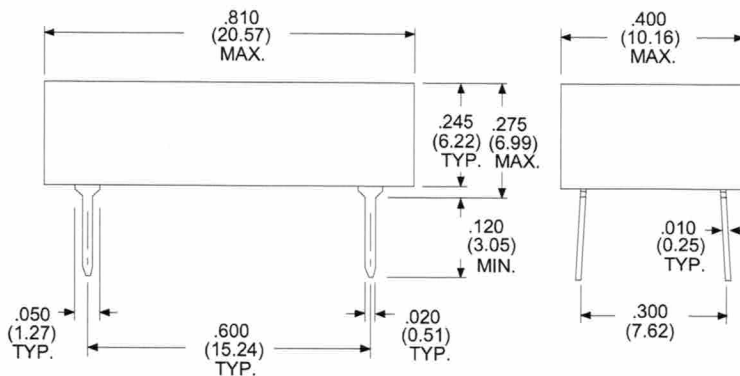
Total Delay in nanoseconds (ns)

Temp. Range Blank = Commercial
 M = Mil-Grade

Examples: FSDM-25 = 25ns Delay
 74F, 14-Pin Thru-hole
 FSDM3-50M = 50ns Delay
 74F, 14-Pin, Mil-Grade

Dimensions in Inches (mm)

Commercial Grade 14-Pin Package with Unused Leads Removed as per Schematic. (For Mil-Grade FSDM3 the Height is 0.335")



MIL-GRADE: FSDM3 Military Grade delay lines use integrated circuits screened to MIL-STD-883B with an operating temperature range of -55 to +125°C. These devices have a package height of .335"