

5-Tap TTL Delays Commercial & MIL-Grade

Electrical Specifications at 25°C

Delay Tolerances		TTL Buffered 5 Tap Modules	
Total (ns)	Tap-to-Tap (ns)	Part Number	MIL - Grade Part Number
9 ± 1.00	** 1 ± 0.5	**DTZM1-9	**DTZM3-9M
13 ± 2.00	** 2 ± 1.0	**DTZM1-13	**DTZM3-13M
17 ± 2.00	** 3 ± 1.0	**DTZM1-17	**DTZM3-17M
25 ± 2.00	5 ± 2.0	DTZM1-25	DTZM3-25M
30 ± 2.00	6 ± 2.0	DTZM1-30	DTZM3-30M
35 ± 2.00	7 ± 2.0	DTZM1-35	DTZM3-35M
40 ± 2.00	8 ± 2.0	DTZM1-40	DTZM3-40M
45 ± 2.25	9 ± 2.0	DTZM1-45	DTZM3-45M
50 ± 2.50	10 ± 2.0	DTZM1-50	DTZM3-50M
60 ± 3.00	12 ± 2.0	DTZM1-55	DTZM3-60M
70 ± 3.50	14 ± 2.0	DTZM1-70	DTZM3-70M
75 ± 3.75	15 ± 2.5	DTZM1-75	DTZM3-75M
80 ± 4.00	16 ± 2.5	DTZM1-75	DTZM3-80M
100 ± 5.00	20 ± 3.0	DTZM1-100	DTZM3-100M
125 ± 6.25	25 ± 3.0	DTZM1-125	DTZM3-125M
150 ± 7.50	30 ± 3.0	DTZM1-150	DTZM3-150M
175 ± 8.75	35 ± 3.5	DTZM1-175	DTZM3-175M
200 ± 10.00	40 ± 4.0	DTZM1-200	DTZM3-200M
225 ± 11.25	45 ± 4.5	DTZM1-225	DTZM3-225M
250 ± 12.50	50 ± 5.0	DTZM1-250	DTZM3-250M
300 ± 15.00	60 ± 6.0	DTZM1-300	DTZM3-300M
350 ± 17.50	70 ± 7.0	DTZM1-350	DTZM3-350M
400 ± 20.00	80 ± 8.0	DTZM1-400	DTZM3-400M
450 ± 22.50	90 ± 9.0	DTZM1-400	DTZM3-450M
500 ± 25.00	100 ± 10	DTZM1-500	DTZM3-500M

** These part numbers do not have 5 equal taps. The delays specified as Tap-to-Tap are referenced to Tap 1: 5 ± 2 ns.

MIL-GRADE: These Military Grade delay lines use integrated circuits screened to MIL-STD-883B with an operating temperature range of -55 to +125°C. These part numbers will have the suffix "M": DTZM3-XXXM, FSDM-XXXM, and MSDM-XXXM. These MIL devices will have larger package height; see drawings below.

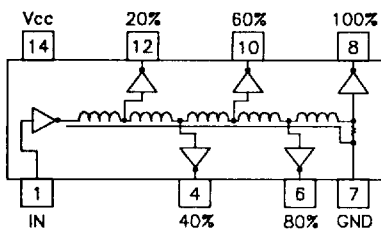
Single & Triple TTL Delay Commercial & MIL-Grade

Electrical Specifications at 25°C

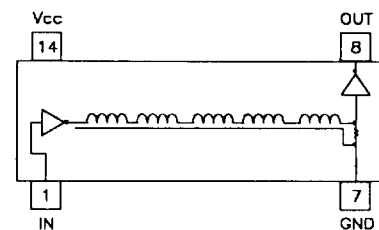
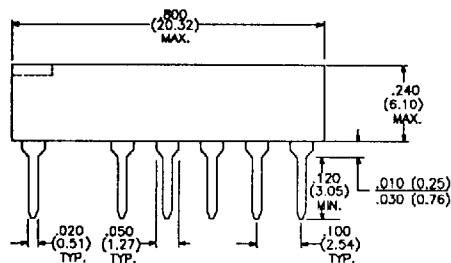
Delay Tolerance (ns)	14 Pin DIL TTL Buffered Single Delays		14 Pin DIL TTL Buffered Triple Independent Delays	
	Commercial Part Number	MIL-Grade Part Number	Commercial Part Number	MIL-Grade Part Number
5 ± 1.00	FSDM-5	FSDM-5M	MSDM-5	MSDM-5M
6 ± 1.00	FSDM-6	FSDM-6M	MSDM-6	MSDM-6M
7 ± 1.00	FSDM-7	FSDM-7M	MSDM-7	MSDM-7M
8 ± 1.00	FSDM-8	FSDM-8M	MSDM-8	MSDM-8M
9 ± 1.00	FSDM-9	FSDM-9M	MSDM-9	MSDM-9M
10 ± 1.50	FSDM-10	FSDM-10M	MSDM-10	MSDM-10M
15 ± 2.00	FSDM-15	FSDM-15M	MSDM-15	MSDM-15M
20 ± 2.00	FSDM-20	FSDM-20M	MSDM-20	MSDM-20M
25 ± 2.00	FSDM-25	FSDM-25M	MSDM-25	MSDM-25M
30 ± 2.00	FSDM-30	FSDM-30M	MSDM-30	MSDM-30M
35 ± 2.00	FSDM-35	FSDM-35M	MSDM-35	MSDM-35M
40 ± 2.00	FSDM-40	FSDM-40M	MSDM-40	MSDM-40M
45 ± 2.25	FSDM-45	FSDM-45M	MSDM-45	MSDM-45M
50 ± 2.50	FSDM-50	FSDM-50M	MSDM-50	MSDM-50M
60 ± 3.00	FSDM-60	FSDM-60M	MSDM-60	MSDM-60M
70 ± 3.50	FSDM-70	FSDM-70M	MSDM-70	MSDM-70M
75 ± 3.75	FSDM-75	FSDM-75M	MSDM-75	MSDM-75M
80 ± 4.00	FSDM-80	FSDM-80M	MSDM-80	MSDM-80M
90 ± 4.50	FSDM-90	FSDM-90M	MSDM-90	MSDM-90M
100 ± 5.0	FSDM-100	FSDM-100M	MSDM-100	MSDM-100M

GENERAL: For Operating Specifications and Test Conditions, see Tables I and VII on page 8 of this catalog. Delays specified for the Leading Edge.

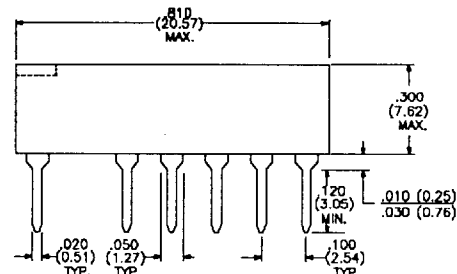
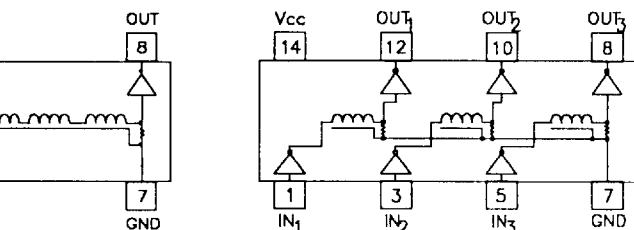
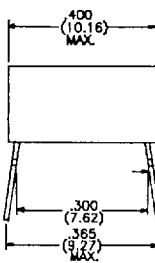
Tap Delays referenced to Input ± 5% or ± 2 ns
 Minimum Input Pulse Width, **DTZM & FSDM** 40% of total delay
 Minimum Input Pulse Width, **MSDM** 100% of total delay
 Temperature Coefficient of Delay, **DTZM & FSDM** 500ppm/°C typical
 Temperature Coefficient of Delay, **MSDM** 800ppm/°C typical
 Supply Current, I_{CC} , **DTZM & FSDM** 40 mA typ., 65 mA max.
 Supply Current, I_{CC} , **MSDM** 60 mA typ., 120 mA max.



Commercial Grade Package Dimensions, inches (mm)



Military Grade Package Dimensions, inches (mm)



VARIATIONS AVAILABLE. FOR INTERMEDIATE VALUES AND/OR CUSTOM DESIGNS PLEASE CONSULT THE FACTORY.
 Specifications subject to change without notice.

DTZM-7/93

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