Pulse
A TECHNITROL COMPANY

SPECIALTY COMPONENTS

High-Performance TTL and FAST Delay Lines

TTLDL and FSTDL 14-pin DIP

- 5 to 500 ns delays available.
- Five equal taps in 20% increments of total delay.
- Lumped constant, active series.
- Transfer-molded packaging for highest reliability.
- Available in low profile, .250 inch high military (MX) series for delays up to 100 ns – contact factory.
- Temperature coefficient ± 2 ns or ± 2% (whichever is greater) at maximum delay, 0 to 70°C.
- Designed for leading edge timing. Trailing edge timing available.
- Compatible with Schottky TTL, FACT, ALS, and AS circuits.
- Military models with temperature range -55 to +125°C and ceramic package IC. Add suffix "M" to part number.
- Military models as above, but with ceramic package IC screened to MIL-STD 883C. Add suffix "MX" to part number.
- Military models as "MX" above, but with in-house burn-in and thermal shock, add suffix "MY".
- 10-tap models available, contact factory for details.

HIGH PERFORMANCE 5-TAP TTL DELAY MODULES

PART NO.	TAP DELAYS (ns)					ALL TAPS	
	T_D1	T_D2	T_D3	T_D4	T_D5	T_{RO}	T_{FO}
TTLDL025	5.0	10.0	15.0	20.0	25.0	2.0	2.0
TTLDL050	10.0	20.0	30.0	40.0	50.0	2.0	2.0
TTLDL075	15.0	30.0	45.0	60.0	75.0	2.0	2.0
TTLDL100	20.0	40.0	60.0	80.0	100.0	2.0	2.0
TTLDL125	25.0	50.0	75.0	100.0	125.0	2.0	2.0
TTLDL150	30.0	60.0	90.0	120.0	150.0	2.0	5.0
TTLDL200	40.0	80.0	120.0	160.0	200.0	2.0	5.0
TTLDL250	50.0	100.0	150.0	200.0	250.0	2.0	5.0
TTLDL500	100.0	200.0	300.0	400.0	500.0	2.0	9.0

For TTL delay lines qualified to MIL-D-83532, refer to PSC information sheet entitled "QPL Active Delay Lines."

Delay Characteristics measured at V_{CC} = 5.0V, 25°C, with 15 pf load per tap @ 1.5V level.
Delay Tolerance ±1.5 ns or 5%, whichever is greater.
Rise time measured @ 0.8V to 2.0V levels.
For minimum input pulse width -- contact factory. Designs with pulse widths of less than 15% of delay are available.

HIGH PERFORMANCE 5-TAP FAST DELAY MODULES

PART NO.	TAP DELAYS (ns)					ALL TAPS	
	T_D1	T_D2	T_D3	T_D4	T_D5	T_{RO}	T_{FO}
FSTDL025	5.0	10.0	15.0	20.0	25.0	2.0	2.0
FSTDL050	10.0	20.0	30.0	40.0	50.0	2.0	2.0
FSTDL075	15.0	30.0	45.0	60.0	75.0	2.0	2.0
FSTDL100	20.0	40.0	60.0	80.0	100.0	2.0	2.0
FSTDL125	25.0	50.0	75.0	100.0	125.0	2.0	2.0
FSTDL150	30.0	60.0	90.0	120.0	150.0	2.0	5.0
FSTDL200	40.0	80.0	120.0	160.0	200.0	2.0	5.0
FSTDL250	50.0	100.0	150.0	200.0	250.0	2.0	5.0
FSTDL500	100.0	200.0	300.0	400.0	500.0	2.0	9.0

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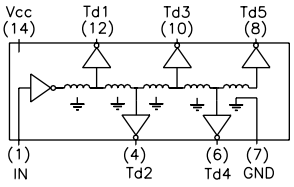
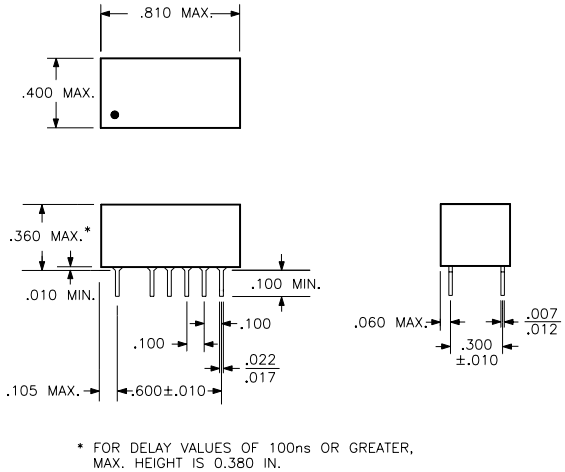
Delay Characteristics measured at V_{CC} = 5.0V, 25°C, with 15 pf load per tap @ 1.5V level.
Delay Tolerance ±1.5 ns or 5%, whichever is greater.
Rise time measured @ 0.8V to 2.0V levels.
For minimum input pulse width -- contact factory. Designs with pulse widths of less than 15% of delay are available.

SCHEMATIC



MECHANICAL OUTLINE



* FOR DELAY VALUES OF 100ns OR GREATER, MAX. HEIGHT IS 0.380 IN.

Notes

- Only the pins specified in the schematics are provided with each package.
- Pin numbers shown are for reference only and are not necessarily marked on unit.
- Lead material is electro tin plated (alloy 42) or solder dipped.
- All specifications are subject to change without notice.

TWO PEARL BUCK COURT ● BRISTOL, PA 19007-6812 ● TEL 215-781-6400 ● FAX 215-781-6403 ● www.pulsespecialty.com