TTL Programmable Delay Modules

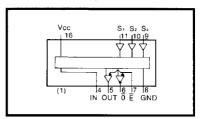
	Step Delay	Max. Delay	Output Rise
Part No.	ns ± ns	ns ± ns	time (ns)
TTLPG301	1.0 ± .4	13.0 ± 2.0	2.0
TTLPG302	2.0 ± .6	20.0 ± 2.0	2.0
TTLPG303	3.0 ± 1.0	27.0 ± 2.0	2.0
TTLPG304	4.0 ± 1.0	34.0 ± 2.0	2.0
TTLPG305	5.0 ± 1.5	41.0 ± 2.0	2.0
TTLPG306	6.0 ± 1.5	48.0 ± 2.5	2.0
TTLPG307	7.0 ± 1.5	55.0 ± 2.5	2.0
TTLPG308	8.0 ± 1.5	62.0 ± 3.0	2.0
TTLPG309	9.0 ± 1.5	69.0 ± 3.5	2.0
TTLPG310	10.0 ± 1.5	76.0 ± 4.0	2.0
TTLPG315	15.0 ± 1.5	111.0 ± 5.0	2.0
TTLPG320	20.0 ± 1.5	146.0 ± 7.0	2.0
TTLPG325	25.0 ± 1.5	181.0 ± 9.0	2.0
TTLPG330	30.0 ± 2.0	216.0 ± 11.0	2.0
TTLPG335	35.0 ± 2.0	251.0 ± 12.0	2.0
TTLPG340	40.0 ± 2.5	286.0 ± 14.0	2.0
TTLPG345	45.0 ± 3.0	321.0 ± 16.0	2.0
TTLPG350	50.0 ± 3.5	356.0 ± 17.0	2.0
TTLPG364	64.0 ± 4.0	454.0 ± 23.0	2.0

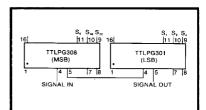
Delay characteristics @ $V_{cc} = 5.0V$ and $T_a = 25$ °C, no load.

Delay time measured at 1.5V level.

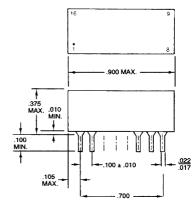
Rise time measured at 0.8V to 2.0V levels.

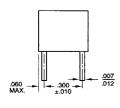
For minimum input pulse width—contact factory.





Example of a 6-bit cascade with 63 steps of 1.0 ns delay with an inherent (or reference) delay of 12.0 ns $(2 \times 6.0 \text{ ns})$.





For delay adjustments via BCD programming. Simplifies minor adjustments and adds flexibility. Although indicated below that programmable modules are available up to 3-bit, 6-bit modules are available through a simple combination of modules (see example below).

- ➤ 3-bit binary (1, 2, 4) programming gives 7 equal step delays.
- ► Low on E enables output.
- ► Complimentary output available.
- Available in 19 step delays from 1 to 64 ns.
- Designed for leading-edge timing.
- Low inherent delay from: Input to output = 6.0 ± 1.5 ns. Input to output = 3.0 ± 1.5 ns. \overline{E} to output = 10.0 ns maximum S_n to output = 13.0 ns maximum
- ► Transfer molded—reliable.
- Military models with temperature range
 55 to +125°C and ceramic package
 IC to meet Mil Std 883C, add suffix "M" to part number.
- Military models as "M" 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" to part number.
- Specifications are for Schottky TTL only. Contact factory for other logic specifications.

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.

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