

Surface-Mount TTL Programmable Delay Modules T-47-17

Part No.	Part No.	Step ns $\pm$ ns	Max. Delay ns $\pm$ ns	Output Rise Time (ns)
GTTLPG301MX	GCTTLPG301AMX	1.0 $\pm$.4	13.0 $\pm$ 2.0	2.0
GTTLPG302MX	GCTTLPG302AMX	2.0 $\pm$.6	20.0 $\pm$ 2.0	2.0
GTTLPG303MX	GCTTLPG303AMX	3.0 $\pm$ 1.0	27.0 $\pm$ 2.0	2.0
GTTLPG304MX	GCTTLPG304AMX	4.0 $\pm$ 1.0	34.0 $\pm$ 2.0	2.0
GTTLPG305MX	GCTTLPG305AMX	5.0 $\pm$ 1.5	41.0 $\pm$ 2.0	2.0
GTTLPG306MX	GCTTLPG306AMX	6.0 $\pm$ 1.5	48.0 $\pm$ 2.5	2.0
GTTLPG307MX	GCTTLPG307AMX	7.0 $\pm$ 1.5	55.0 $\pm$ 2.5	2.0
GTTLPG308MX	GCTTLPG308AMX	8.0 $\pm$ 1.5	62.0 $\pm$ 3.0	2.0
GTTLPG309MX	GCTTLPG309AMX	9.0 $\pm$ 1.5	69.0 $\pm$ 3.0	2.0
GTTLPG310MX	GCTTLPG310AMX	10.0 $\pm$ 1.5	76.0 $\pm$ 4.0	2.0
GTTLPG315MX	GCTTLPG315AMX	15.0 $\pm$ 1.5	111.0 $\pm$ 5.0	2.0

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

Delay time measured at 1.5V level.

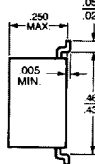
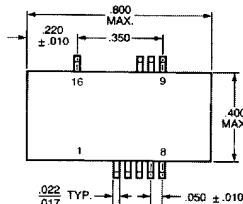
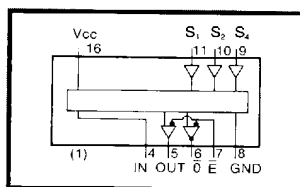
Rise time measured @ 0.8V to 2.0V levels.

For minimum input pulse width, contact factory.

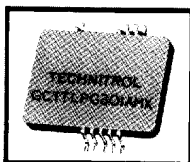
TTL Programmable Delay Modules—Gull Wing



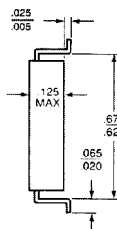
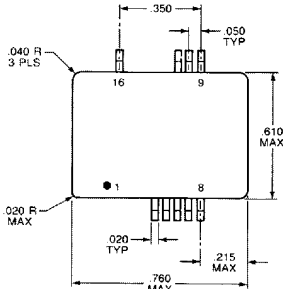
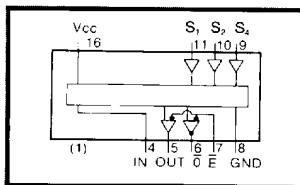
GTTLPGXXXMX



TTL Programmable Delay Modules—Low Profile Gull Wing



GCTTLPGXXXAMX



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 delay modules are available through a simple combination of cascaded modules.

- ▶ Available in new .125" height package.
- ▶ 3-bit binary (1, 2, 4) programming gives 7 equal step delays.
- ▶ Low on $\bar{E}$ enables output.
- ▶ Complementary output available.
- ▶ Available in 11 step delays from 1 to 15 ns.

- ▶ Low inherent delay from:
 - Input to output = 6.0 ± 1.5 ns
 - Input to output = 3.0 ± 1.5 ns
 - E to output = 10.0 ns Maximum
 - Sn to output = 13.0 ns Maximum

- ▶ Transfer molded packaging—for highest reliability.

- ▶ Supports Schottky TTL, FAST, and FACT logics.

- ▶ Specifications here are for Schottky TTL only; contact factory for other logic specifications.

- ▶ MX suffix designated military models with temperature range -55° to $+125^\circ C$ and ceramic package IC screened to Mil-Std-883C and 38510.

- ▶ Military models as "MX" above, but with in-house burn-in and thermal shock, add suffix "MY".

- ▶ Designed for leading edge timing.

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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