

*TTLPW
14-pin DIP*

TTL Pulse-Width Regulators

Takes logic-level-input signals of unequal duration and transforms these into logic-level output signals of precisely timed and equal duration.

5 ns minimum input-pulse width, 5 to 500 ns output-pulse width, as selected. Input-pulse width can vary; output-pulse width remains the same. Precisely timed output-pulse trailing edge permits trailing-edge timing or gating functions.

- **Voltage- and temperature-compensated performance: ± 1 ns or ± 1 %**
(whichever is greater) variance over 0 to 70°C range, and over 5V $\pm 10\%$ supply.
- **Transfer molded packaging for highest reliability.**
- **Compatible with Schottky TTL, FAST, ALS, AS, and FACT circuits.**
- **Minimum input-pulse width only 5 ns.**
- **6 ns ± 1.5 ns propagation delay from input to output.**
- **Available in suffix "M", "MX", and "MY" Mil versions, as described on page 5.**
- **Fanout: Logic 1-20 loads; logic 0-10 loads.**

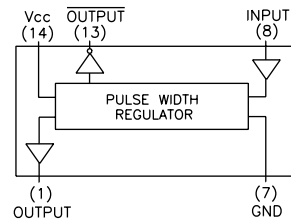
MODEL TTLPW PULSE WIDTH REGULATORS

PART NO.	Pulse Width (PW) ns	Max. Input Freq. (MHz)	PART NO.	Pulse Width (PW) ns	Max. Input Freq. (MHz)
TTLPW005	5.0	98.0	TTLPW060	60.0	8.0
TTLPW010	10.0	49.0	TTLPW070	70.0	6.5
TTLPW015	15.0	30.0	TTLPW075	75.0	6.0
TTLPW020	20.0	23.0	TTLPW100	100.0	4.0
TTLPW025	25.0	18.0	TTLPW150	150.0	3.0
TTLPW030	30.0	15.0	TTLPW200	200.0	2.0
TTLPW035	35.0	13.0	TTLPW250	250.0	1.9
TTLPW040	40.0	11.0	TTLPW300	300.0	1.5
TTLPW045	45.0	10.0	TTLPW400	400.0	1.0
TTLPW050	50.0	9.0	TTLPW500	500.0	0.9

Output characteristics measured at $V_{CC} = 5.0V$, 25°C, no load.
 Pulse-width tolerance ± 1.5 ns or 5%, whichever is greater @1.5V level.
 Rise time 2 ns max. (@ 0.8V to 2.0V levels.
 Maximum frequency with input \leq output pulse width.

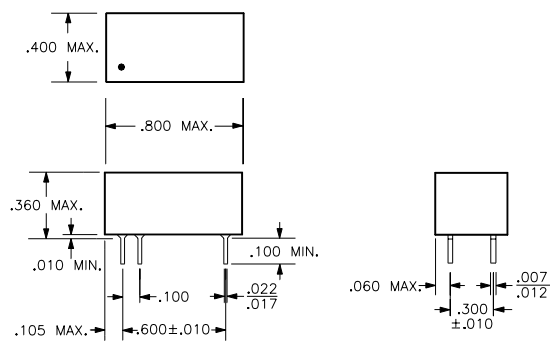


SCHEMATIC



TTLPW
14-pin DIP

MECHANICAL OUTLINE



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.

TTLPW-8