

Fast Logic Pulse Width Discriminator

SERIES: PWD-21
TTL Interfaced

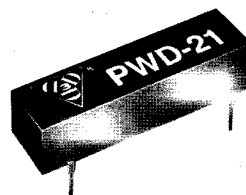
**data
delay
devices, inc.**

Features:

- Auto-Insertable.
- Completely Interfaced with TTL and DTL application.
- No external components required.
- P.C. board space economy achieved.
- Fits standard 14 pins DIP socket.

Specifications:

- Pulse-width tolerance: $\pm 5\%$ or better 2 ns whichever is greater.
- Rise-time: 2 ns typically.
- Temperature coefficient: 100 PPM/ $^{\circ}\text{C}$.
- Temperature range: 0°C to 70°C standard.
- Minimum pulse rep. rate = $2.5 \times$ pulse-width of the unit



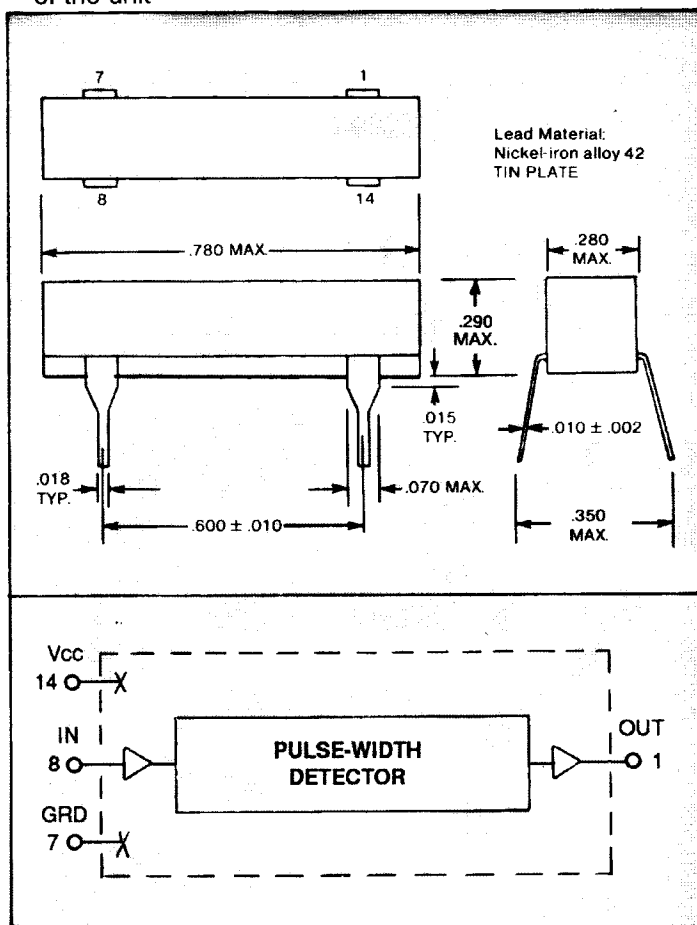
- Supply voltage: 4.75 to 5.25 Vdc.

- Supply current:

I_{CCL} : 32 ma.

I_{CCH} : 7 ma.

- DC Parameters: See TTL-Fast Schottky Logic Table on Page 6.



Part No.	Pulse Widths (ns)		
	Nominal	Suppress	Pass
PWD-21-5	5	≤ 4	≥ 6
PWD-21-10	10	≤ 9	≥ 11
PWD-21-15	15	≤ 14	≥ 16
PWD-21-20	20	≤ 19	≥ 21
PWD-21-25	25	≤ 24	≥ 26
PWD-21-30	30	≤ 29	≥ 31
PWD-21-35	35	≤ 34	≥ 36
PWD-21-40	40	≤ 39	≥ 41
PWD-21-45	45	≤ 43.5	≥ 46.5
PWD-21-50	50	≤ 48.5	≥ 51.5
PWD-21-60	60	≤ 58	≥ 62
PWD-21-70	70	≤ 68	≥ 72
PWD-21-75	75	≤ 73	≥ 77
PWD-21-80	80	≤ 78	≥ 82
PWD-21-90	90	≤ 88	≥ 92
PWD-21-100	100	≤ 98	≥ 102
PWD-21-125	125	≤ 123	≥ 127
PWD-21-150	150	≤ 147	≥ 153
PWD-21-175	175	≤ 172	≥ 178
PWD-21-200	200	≤ 196	≥ 204
PWD-21-250	250	≤ 245	≥ 255
PWD-21-300	300	≤ 294	≥ 306
PWD-21-400	400	≤ 392	≥ 408
PWD-21-500	500	≤ 490	≥ 510