

**Fast Logic**

# Digital Delay Units

**SERIES: DDU-66F**

TTL Interfaced, 5 Outputs  
14 pins DIP & Surface Mount

**data  
delay  
devices, inc.**

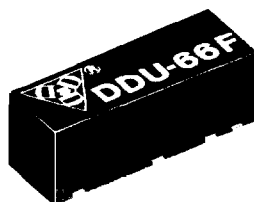


## Features:

- Automatic insertable.
- Through-hole or surface mount leads.
- Low Cost.

## Specifications:

- Outputs: 5, equally spaced.
- Delay tolerance: see table.
- Rise-time: 2 ns typically.
- Minimum pulse width: 40% of total delay.
- Temperature range: 0° C to + 70° C.
- Temperature coefficient: 100 PPM/°C.
- Supply voltage: 4.75 to 5.25 Vdc.
- Leads: Alloy 42, tin plated.
- Supply current:  
I<sub>ccL</sub>: 32 ma.  
I<sub>ccH</sub>: 7 ma.
- DC parameters: See TTL-Fast Schottky Logic Table on Page 6.



| DDU-66F<br>(Standard) | DDU-66F<br>(Type "A") | DDU-66F<br>(Type "B") | Total Delay<br>(ns) | Tap Delay<br>(ns) |
|-----------------------|-----------------------|-----------------------|---------------------|-------------------|
| *DDU-66F-4            | *DDU-66F-4A           | *DDU-66F-4B           | 4 ± 1               | 1 ± 0.5           |
| *DDU-66F-6            | *DDU-66F-6A           | *DDU-66F-6B           | 6 ± 1               | 1.5 ± 0.5         |
| *DDU-66F-8            | *DDU-66F-8A           | *DDU-66F-8B           | 8 ± 2               | 2 ± 1             |
| *DDU-66F-10           | *DDU-66F-10A          | *DDU-66F-10B          | 10 ± 2              | 2.5 ± 1           |
| *DDU-66F-12           | *DDU-66F-12A          | *DDU-66F-12B          | 12 ± 2              | 3 ± 1             |
| *DDU-66F-16           | *DDU-66F-16A          | *DDU-66F-16B          | 16 ± 2              | 4 ± 1.5           |
| *DDU-66F-20           | *DDU-66F-20A          | *DDU-66F-20B          | 20 ± 3              | 5 ± 2             |
| DDU-66F-25            | DDU-66F-25A           | DDU-66F-25B           | 25 ± 3              | 5 ± 2             |
| DDU-66F-30            | DDU-66F-30A           | DDU-66F-30B           | 30 ± 3              | 6 ± 2             |
| DDU-66F-35            | DDU-66F-35A           | DDU-66F-35B           | 35 ± 3              | 7 ± 2             |
| DDU-66F-40            | DDU-66F-40A           | DDU-66F-40B           | 40 ± 3              | 8 ± 2             |
| DDU-66F-45            | DDU-66F-45A           | DDU-66F-45B           | 45 ± 3              | 9 ± 3             |
| DDU-66F-50            | DDU-66F-50A           | DDU-66F-50B           | 50 ± 3              | 10 ± 3            |
| DDU-66F-60            | DDU-66F-60A           | DDU-66F-60B           | 60 ± 3              | 12 ± 3            |
| DDU-66F-75            | DDU-66F-75A           | DDU-66F-75B           | 75 ± 4              | 15 ± 3            |
| DDU-66F-100           | DDU-66F-100A          | DDU-66F-100B          | 100 ± 5             | 20 ± 3            |
| DDU-66F-125           | DDU-66F-125A          | DDU-66F-125B          | 125 ± 6.5           | 25 ± 3            |
| DDU-66F-150           | DDU-66F-150A          | DDU-66F-150B          | 150 ± 7.5           | 30 ± 3            |
| DDU-66F-175           | DDU-66F-175A          | DDU-66F-175B          | 175 ± 8             | 35 ± 4            |
| DDU-66F-200           | DDU-66F-200A          | DDU-66F-200B          | 200 ± 10            | 40 ± 4            |
| DDU-66F-250           | DDU-66F-250A          | DDU-66F-250B          | 250 ± 12.5          | 50 ± 5            |

\*Time delay measured with respect to 1st tap. 3.5 ns ± 1 ns inherent delay.

