

Fast Logic

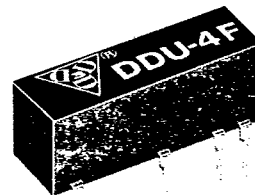
Digital Delay Units

SERIES: DDU-4F**1 to 5 Taps (14 pins DIP)
TTL Interfaced****data
delay
devices, inc.****Features:**

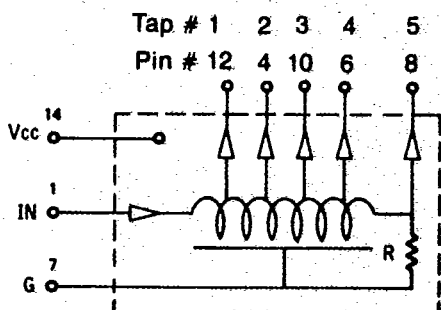
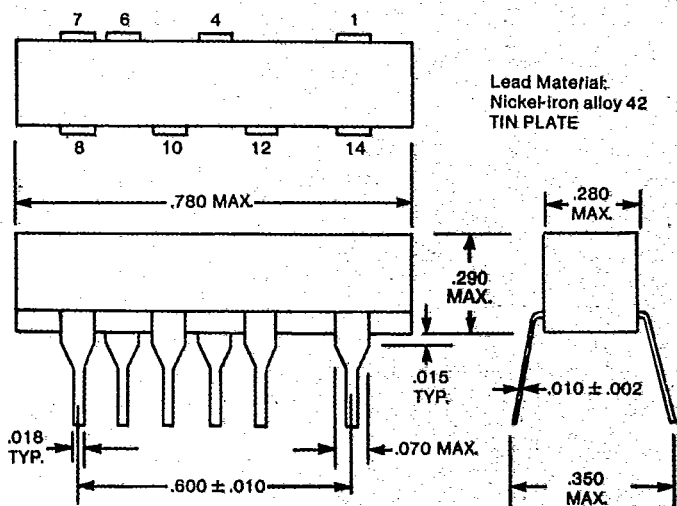
- Auto-insertable.
- Completely interfaced with TTL and DTL application.
- No external components required.
- P.C. board space economy achieved.
- Fits standard 14 pins DIP socket.

Specifications:

- Delay tolerance: $\pm 5\%$ or better or 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.
- Logic 1 input current: 100 μA max.
- Logic 0 input current: -1.6 ma. max.



- Logic 1 V out: 2.5 V min.
- Logic 0 V out: 0.5 V max.
- Logic 1 Fan-out: 25 max.
- Logic 0 Fan-out: 12.5 max.
- Minimum pulse width: 20% of total delay.
- Supply voltage: 4.75 to 5.25 Vdc.
- Supply current:
 - I_{CC1}: 32 ma.
 - I_{CCH}: 7 ma.



Single Delay Output (ns)		2 Delays Output (ns)		
Part No.	Delay @ Pin #8	Part No.	Delay @ Pin #10	Delay @ Pin #8
DDU-4F-1010	10	DDU-4F-2020	10	20
DDU-4F-1020	20	DDU-4F-2040	20	40
DDU-4F-1030	30	DDU-4F-2050	25	50
DDU-4F-1040	40	DDU-4F-2060	30	60
DDU-4F-1050	50	DDU-4F-2080	40	80
DDU-4F-1060	60	DDU-4F-2100	50	100
DDU-4F-1080	80	DDU-4F-2150	75	150
DDU-4F-1100	100	DDU-4F-2200	100	200
DDU-4F-1150	150	DDU-4F-2300	150	300
DDU-4F-1200	200	DDU-4F-2400	200	400
DDU-4F-1300	300	DDU-4F-2500	250	500
DDU-4F-1400	400	DDU-4F-7690A	65	110
DDU-4F-1500	500			

5 Delays Output (ns)					
Part No.	Delay @ Pin #12	Delay @ Pin #4	Delay @ Pin #10	Delay @ Pin #6	Delay @ Pin #8
DDU-4F-5025	5	10	15	20	25
DDU-4F-5050	10	20	30	40	50
DDU-4F-5075	15	30	45	60	75
DDU-4F-5100	20	40	60	80	100
DDU-4F-5125	25	50	75	100	125
DDU-4F-5150	30	60	90	120	150
DDU-4F-5200	40	80	120	160	200
DDU-4F-5250	50	100	150	200	250
DDU-4F-5300	60	120	180	240	300
DDU-4F-5400	80	160	240	320	400
DDU-4F-5500	100	200	300	400	500