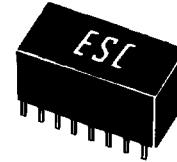
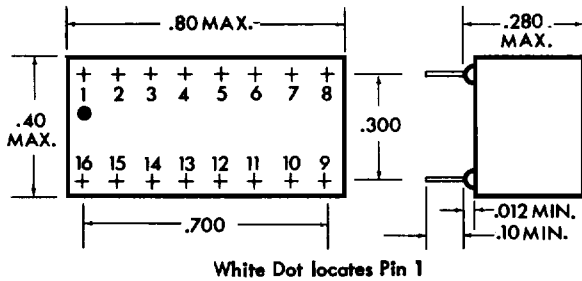


# ECL "10,000" DIGITAL DELAY LINES 16 PIN PACKAGE 5 TAPS • SINGLE • DUAL • TRIPLE

**SERIES 16EC, 16EG, 16ED AND 16EP**



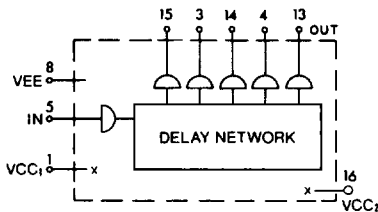
ONLY ACTIVE PINS ARE SUPPLIED

Intermediate delay values available upon request.

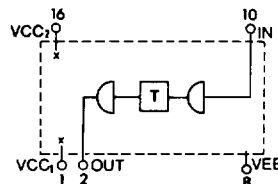
Series 16EC (5 tap)		
Model No. (Fig. 1)	Delay (ns)	Delay/Tap (ns)
16EC10	10	2 ± .5
16EC15	15	3 ± .5
16EC20	20	4 ± .5
16EC25	25	5 ± 1.0
16EC30	30	6 ± 1.0
16EC40	40	8 ± 1.0
16EC50	50	10 ± 1.0
16EC60	60	12 ± 1.0
16EC80	80	16 ± 1.5
16EC100	100	20 ± 2.0

Delay/line (ns)	MODEL NUMBERS		
	Series 16EG	Series 16ED	Series 16EP
	One output (Fig. 2)	Dual output (Fig. 3)	Triple output (Fig. 4)
10	16EG10	16ED10	16EP10
15	16EG15	16ED15	16EP15
20	16EG20	16ED20	16EP20
25	16EG25	16ED25	16EP25
30	16EG30	16ED30	16EP30
40	16EG40	16ED40	16EP40
50	16EG50	16ED50	16EP50
60	16EG60	—	—
80	16EG80	—	—
100	16EG100	—	—

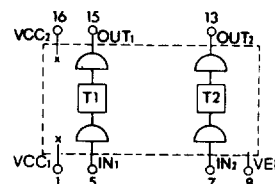
For variations in delay from above listing, modify part number by changing delay. Example: 90ns, 16EC series becomes 16EC90.



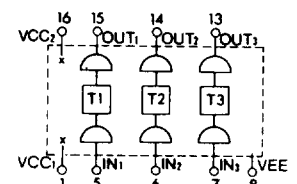
**FIG. 1**



**FIG. 2**



**FIG. 3**



**FIG. 4**

**SPECIFICATIONS:**

- Cumulative delay tolerances: ± 1ns or ± 5% wig
- Logic 1 (output): -.96V min
- Logic 0 (output): -1.65V max
- Logic 1 (input): -.98V min
- Logic 0 (input): -1.63V max
- Output rise time: 3ns max
- Supply voltage: -5.2V ± 5%
- Supply current: EC series: 65mA max  
EG series: 70mA max  
ED series: 100mA max  
EP series: 140mA max
- Minimum Pulse Width: 40% of Total Delay
- Maximum Duty Cycle: 50%
- ★ ● Operating temperature: 0°C to + 70°C
- Delay temp. coefficient: 1.0ns + 500ppm/°C
- Terminals: Electro tin plated alloy 42 .020w x .010h

**TEST CONDITIONS:**

- Temp. 25°C Vee=-5.2VDC Vcc=Grd
- ★★ ● Input pulse amplitude: -1.0V (-.75V H to -1.75V L)
- Pulse width: 3 X max Td
- Pulse spacing: 10 X max Td
- Time delay measured at -1.3V level
- Output connected through an external pulldown resistor of 100 ohms to 2.0VDC
- ★ Available for -55°C to + 125° operation. The dimensions of the 16EC Series will increase to .360 high X .820 long. Specify 16ECC Series when ordering.
- ★★ Input pulse provided by standard open emitter ECL 10,000 gate.