

T-47-13

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DIGITAL DELAY LINE SERIES 0447 AND A447 TRIPLE OUTPUT MODULE

TECHNICAL INFORMATION

TEST CONDITIONS

Pulse Voltage 3.2 Volts
 Rise Time 3.0 Nsec (10%-90%)
 Pulse Width $1.2 \times$ Total Delay
 Pulse Period $4 \times$ Pulse Width
 Supply Current, I_{cc} Constant "0" in
 115 mA max
 Constant "1" in
 90 mA max.

Supply Voltage, V_{cc} 5.0 Volts
 Ambient Temperature 25°C

PERFORMANCE CHARACTERISTICS

Logic 1 Input Current
 50 Microamp max.
 Logic 0 Input Current
 - 2 Milliamp max.
 Logic 1 Output Voltage
 2.7 Volts min.
 Logic 0 Output Voltage
 0.5 Volts max.

All specified Performance Characteristics
 apply at above listed Test Conditions.

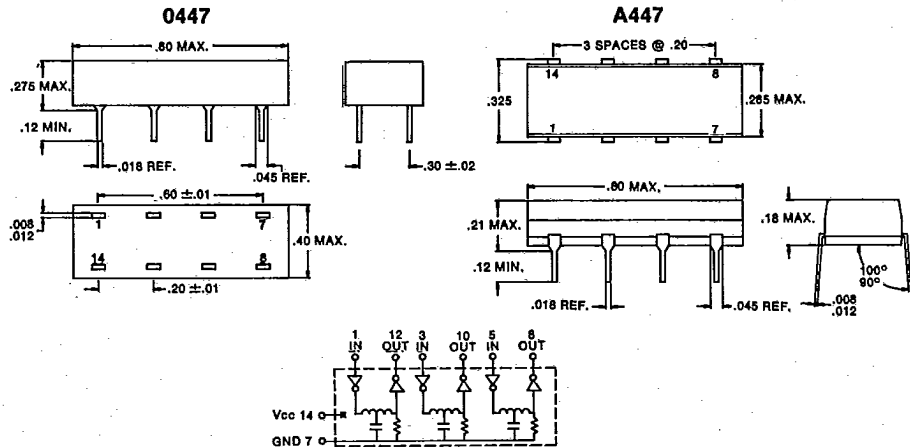
ELECTRICAL CHARACTERISTICS

Supply Voltage, V_{cc}
 4.75 to 5.25 Volts
 Operating Temperature Range
 0°C to 70°C
 Temperature Coefficient of Total Delay
 1200PPM/°C Typical
 Minimum Input Pulse Width
 100% of Total Delay
 Maximum Duty Cycle
 50%

DRIVE CAPABILITIES

10 TTL Loads/Output max.
 20 TTL Loads/Unit max.

- Compatible with TTL and DTL circuits
- Other delays and tolerances upon request



Part * Number	Delay Time	Rise Time
	1, 3	2, 3
0447-0010-A3	10 NS ± 1.5 NS	3 NS
0447-0020-A3	20 NS ± 1.5 NS	3 NS
0447-0030-A3	30 NS ± 2.0 NS	3 NS
0447-0040-A3	40 NS ± 2.0 NS	3 NS
0447-0050-A3	50 NS ± 2.5 NS	3 NS
0447-0060-A3	60 NS ± 3.0 NS	4 NS
0447-0070-A3	70 NS ± 3.5 NS	4 NS
0447-0080-A3	80 NS ± 4.0 NS	4 NS
0447-0090-A3	90 NS ± 4.0 NS	4 NS
0447-0100-A3	100 NS ± 5.0 NS	4 NS

1 Delays measured at 1.5 Volt Leading Edge only.
 2 Rise Times measured from .75 to 2.4 Volts.
 3 Measured with 1 STTL load (15PF) on each output.
 * Auto insertable package part number starts with A447.

Specifications Subject To Change Without Notice