

bel/ defining a degree of excellence

DIGITAL DELAY LINE SERIES 0447 AND A447 LOW POWER MODULE 20 MA TYP 5 TAP/FIXED DELAY

TECHNICAL INFORMATION

TEST CONDITIONS

Pulse Voltage	3.2 Volts
Rise Time	3.0 Nsec
Pulse Width	1.2 X Total Delay
Pulse Period	4 X Pulse Width
Supply Current, I_{CC}	20.0 Milliamps max.
Supply Voltage, V_{CC}	5.0 Volts
Ambient Temperature	25°C

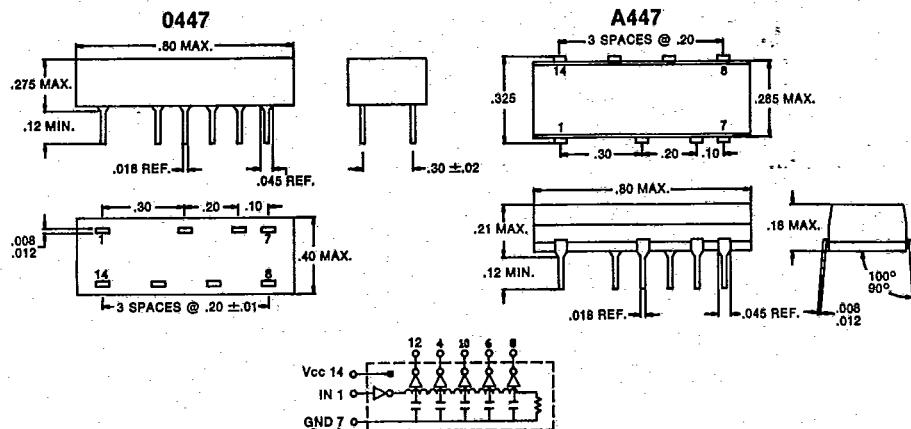
PERFORMANCE CHARACTERISTICS

Logic 1 Input Current	20 Microamp max.
Logic 0 Input Current	— 0.4 Milliamp max.
Logic 1 Output Voltage	2.7 Volts min.
Logic 0 Output Voltage	0.5 Volts max.
Delay Tolerance From Input To Tap	± 2 Nsec or 5% whichever is greater
Delay Tolerance From Tap To Tap	± 2 Nsec or 7% whichever is greater

All specified Performance Characteristics apply at above listed Test Conditions. Variations of input pulse width or duty cycle from those specified as test conditions may change specified tolerances.

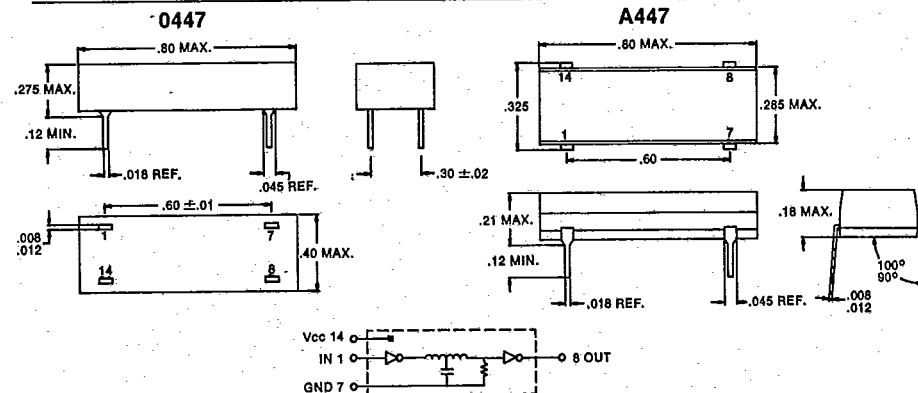
ELECTRICAL CHARACTERISTICS

Supply Voltage, V_{CC}	4.75 to 5.25 Volts
Operating Temperature Range	0°C To 70°C
Temperature Coefficient Of Total Delay	500PPM/°C Typical
Minimum Input Pulse Width	40% Of Total Delay
Maximum Duty Cycle	50%
10 TTL Loads / Tap max.	
20 TTL Loads / Unit max.	
— Compatible with TTL and DTL circuits.	
— Other delays and tolerances upon request	



5 TAP

Part * Number	Total Delay 1, 3	Delay / Tap 1, 3	Rise Time 2, 3
0447-0025-09	25NS	5NS	8NS
0447-0050-09	50NS	10NS	8NS
0447-0100-09	100NS	20NS	8NS
0447-0150-09	150NS	30NS	8NS
0447-0200-09	200NS	40NS	8NS
0447-0250-09	250NS	50NS	8NS
0447-0300-09	300NS	60NS	8NS
0447-0350-09	350NS	70NS	8NS
0447-0400-09	400NS	80NS	8NS
0447-0450-09	450NS	90NS	8NS
0447-0500-09	500NS	100NS	8NS



FIXED DELAY

Part * Number	Total Delay 1, 3	Rise Time 2, 3	Part * Number	Total Delay 1, 3	Rise Time 2, 3
0447-0010-08	10NS	8NS	0447-0125-08	125NS	8NS
0447-0020-08	20NS	8NS	0447-0150-08	150NS	8NS
0447-0030-08	30NS	8NS	0447-0175-08	175NS	8NS
0447-0040-08	40NS	8NS	0447-0200-08	200NS	8NS
0447-0050-08	50NS	8NS	0447-0250-08	250NS	8NS
0447-0060-08	60NS	8NS	0447-0300-08	300NS	8NS
0447-0070-08	70NS	8NS	0447-0350-08	350NS	8NS
0447-0080-08	80NS	8NS	0447-0400-08	400NS	8NS
0447-0090-08	90NS	8NS	0447-0450-08	450NS	8NS
0447-0100-08	100NS	8NS	0447-0500-08	500NS	8NS

1 Delays measured at 1.5 Volt level on Leading Edge only.

2 Rise Times measured from .8 Volts to 2 Volts.

3 Measured with no loads on taps.

* Auto insertable package part number starts with A447.

Specifications Subject To Change Without Notice