

## PULSE WIDTH GENERATOR SERIES A456 TTL COMPATIBLE

### TECHNICAL INFORMATION

#### TEST CONDITIONS

Pulse Voltage	3.2 Volts
Rise Time	3.0 Nsec (10%-90%)
Pulse Width	10 Nsec
Pulse Period	4 x Output Pulse Width
Supply Current	60.0 Milliamps max.
Supply Voltage, Vcc	5.0 Volts
Ambient Temperature	25°C

#### PERFORMANCE CHARACTERISTICS

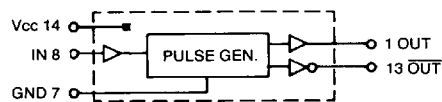
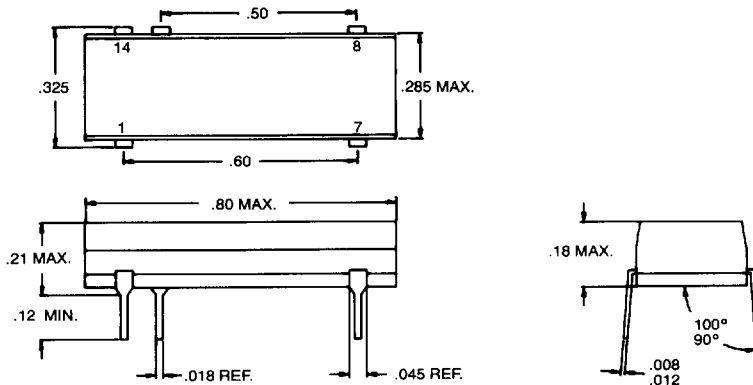
Output Width Tolerance  
± 2 Nsec or 5% whichever is greater  
Performance Characteristics apply at above listed Test Conditions.

#### ELECTRICAL CHARACTERISTICS

Supply Voltage, Vcc	4.75 to 5.25 Volts
Logic 1 Input Voltage	2.0 Volts min.
Logic 0 Input Voltage	0.8 Volts max.
Logic 1 Output Voltage	2.7 Volts min.
Logic 0 Output Voltage	0.5 Volts max.
Operating Temperature Range	0°C To 70°C
Temperature Coefficient Of Output Pulse Width	1200PPM/°C Typical

#### DRIVE CAPABILITIES

- 8 TTL Loads/Output max.
- Compatible with TTL and DTL circuits
- Other pulse widths and tolerances upon request
- Positive edge trigger



Part Number	Pulse Width (NS) 1, 2	Maximum Pulse Rate (MHz)
A456-0005-01	5	66
A456-0006-01	6	58
A456-0007-01	7	52
A456-0008-01	8	47
A456-0009-01	9	43
A456-0010-01	10	40
A456-0015-01	15	28
A456-0020-01	20	22
A456-0025-01	25	18
A456-0030-01	30	15
A456-0035-01	35	13
A456-0040-01	40	11
A456-0045-01	45	10
A456-0050-01	50	9
A456-0060-01	60	8
A456-0070-01	70	7
A456-0080-01	80	6
A456-0090-01	90	5
A456-0100-01	100	4

1 Pulse Width measured at 1.5 Volt on both Leading and Trailing Edge.  
2 Measured with no load on outputs.

Specifications Subject To Change Without Notice

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