

## PULSE GENERATOR SERIES 0454 HIGH SPEED ECL 10KH

### TECHNICAL INFORMATION

#### TEST CONDITIONS

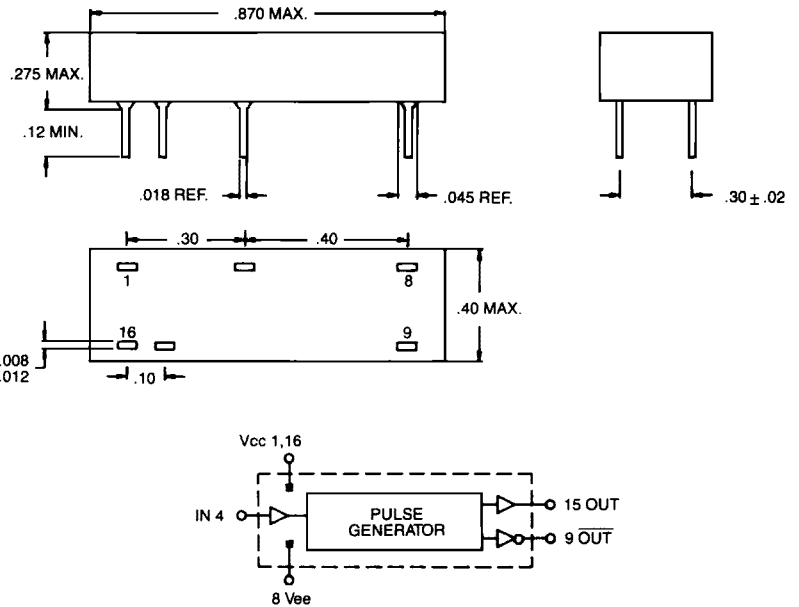
Logic 1	- 0.9 Volts
Logic 0	- 1.8 Volts
Rise Time 20% to 80%	1.0 Nsec
Pulse Width	5 Nsec
Pulse Period	4 x Output Pulse Width
Supply Voltage, Vee	- 5.2 Volts
Output Terminations	50 Ohm
	± 1% to - 2 Volts
Ambient Temperature	25°C

#### PERFORMANCE CHARACTERISTICS

Pulse Width Tolerances  
As Specified in Table  
Performance Characteristics apply to  
above listed Test Conditions.

#### ELECTRICAL CHARACTERISTICS

Supply Voltage, Vcc	- 4.94 To - 5.46 Volts
Logic 1 Input Voltage	- 1.13 Volts min.
Logic 1 Input Current	265 Microamp max.
Logic 1 Output Voltage	- 0.98 Volts min.
Logic 0 Input Voltage	- 1.48 Volts max.
Logic 0 Input Current	0.5 Microamp min.
Logic 0 Output Voltage	- 1.63 Volts max.
Operating Temperature Range	0°C To 75°C
Temperature Coefficient Of Output Pulse Width	300PPM/°C Typical
—Compatible with ECL 10KH circuits	
—Other pulse widths and tolerances upon request	



Part Number	Pulse Width (NS) 1	Maximum Pulse Rate (MHz)
0454-0005-01	5 ± 1.0	98
0454-0006-01	6 ± 1.0	80
0454-0007-01	7 ± 1.0	70
0454-0008-01	8 ± 1.0	60
0454-0009-01	9 ± 1.0	54
0454-0010-01	10 ± 1.0	49
0454-0015-01	15 ± 1.0	32
0454-0020-01	20 ± 1.0	24
0454-0025-01	25 ± 1.0	19
0454-0030-01	30 ± 1.0	15
0454-0035-01	35 ± 1.5	13
0454-0040-01	40 ± 1.5	11
0454-0045-01	45 ± 1.5	10
0454-0050-01	50 ± 1.5	9
0454-0060-01	60 ± 1.5	8
0454-0070-01	70 ± 2.0	7
0454-0080-01	80 ± 2.0	6
0454-0090-01	90 ± 3.0	5
0454-0100-01	100 ± 3.0	4

1 Measured at 50% level.