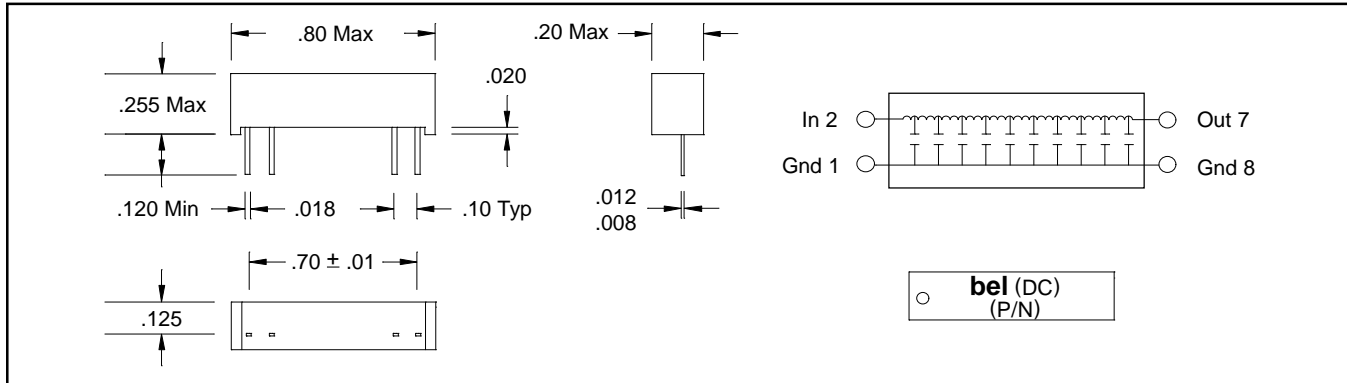


# HIGH-SPEED 4 PIN SIP PASSIVE DELAY MODULES

Cat 16-R5



### Part Numbers

100 Ohms ± 10%	50 Ohms ± 10%	75 Ohms ± 10%	65 Ohms ± 10%	80 Ohms ± 10%	Total Delay	Rise Time (True)	DCR Maximum
0401-1403-02	A401-1500-02	A401-1501-02	A401-1503-02	A401-1505-02	0.5 ± 0.25 ns	1.0 ns	1.0 Ohm
0401-1403-03	A401-1500-03	A401-1501-03	A401-1503-03	A401-1505-03	1.0 ± 0.25 ns	1.0 ns	1.0 Ohm
0401-1403-05	A401-1500-05	A401-1501-05	A401-1503-05	A401-1505-05	2.0 ± 0.25 ns	1.0 ns	1.0 Ohm
0401-1403-07	A401-1500-07	A401-1501-07	A401-1503-07	A401-1505-07	3.0 ± 0.25 ns	1.0 ns	1.0 Ohm
0401-1403-09	A401-1500-09	A401-1501-09	A401-1503-09	A401-1505-09	4.0 ± 0.25 ns	1.0 ns	1.0 Ohm
0401-1403-11	A401-1500-11	A401-1501-11	A401-1503-11	A401-1505-11	5.0 ± 0.25 ns	1.1 ns	1.0 Ohm
0401-1403-13	A401-1500-13	A401-1501-13	A401-1503-13	A401-1505-13	6.0 ± 0.25 ns	1.3 ns	1.0 Ohm
0401-1403-15	A401-1500-15	A401-1501-15	A401-1503-15	A401-1505-15	7.0 ± .025 ns	1.5 ns	1.0 Ohm
0401-1403-17	A401-1500-17	A401-1501-17	A401-1503-17	A401-1505-17	8.0 ± 0.25 ns	1.7 ns	1.0 Ohm
0401-1403-19	A401-1500-19	A401-1501-19	A401-1503-19	A401-1505-19	9.0 ± 0.25 ns	1.9 ns	1.0 Ohm
0401-1403-21	A401-1500-21	A401-1501-21	A401-1503-21	A401-1505-21	10.0 ± 0.25 ns	2.0 ns	1.0 Ohm
0401-1403-23	A401-1500-23	A401-1501-23	A401-1503-23	A401-1505-23	11.0 ± 0.25 ns	2.2 ns	2.0 Ohms
0401-1403-25	A401-1500-25	A401-1501-25	A401-1503-25	A401-1505-25	12.0 ± 0.25 ns	2.3 ns	2.0 Ohms
0401-1403-27	A401-1500-27	A401-1501-27	A401-1503-27	A401-1505-27	13.0 ± 0.25 ns	2.5 ns	2.0 Ohms
0401-1403-29	A401-1500-29	A401-1501-29	A401-1503-29	A401-1505-29	14.0 ± 0.25 ns	2.6 ns	2.0 Ohms
0401-1403-31	A401-1500-31	A401-1501-31	A401-1503-31	A401-1505-31	15.0 ± 0.25 ns	2.8 ns	2.0 Ohms
0401-1403-33	A401-1500-33	A401-1501-33	A401-1503-33	A401-1505-33	16.0 ± 0.25 ns	3.0 ns	2.5 Ohms
0401-1403-35	A401-1500-35	A401-1501-35	A401-1503-35	A401-1505-35	17.0 ± 0.25 ns	3.2 ns	2.5 Ohms
0401-1403-37	A401-1500-37	A401-1501-37	A401-1503-37	A401-1505-37	18.0 ± 0.25 ns	3.4 ns	2.5 Ohms
0401-1403-39	A401-1500-39	A401-1501-39	A401-1503-39	A401-1505-39	19.0 ± 0.25 ns	3.6 ns	2.5 Ohms
0401-1403-40	A401-1500-40	A401-1501-40	A401-1503-40	A401-1505-40	20.0 ± 0.50 ns	3.8 ns	2.5 Ohms
0401-1403-46	A401-1500-46	A401-1501-46	A401-1503-46	A401-1505-46	25.0 ± 0.50 ns	4.5 ns	4.0 Ohms
0401-1403-51	A401-1500-51	A401-1501-51	A401-1503-51	A401-1505-51	30.0 ± 0.50 ns	5.5 ns	4.5 Ohms
0401-1403-56	A401-1500-56	A401-1501-56	A401-1503-56	A401-1505-56	35.0 ± 0.50 ns	6.4 ns	5.5 Ohms
0401-1403-61	A401-1500-61	A401-1501-61	A401-1503-61	A401-1505-61	40.0 ± 0.50 ns	7.4 ns	6.0 Ohms

### Electrical Characteristics

Delay Measurement	50% Levels
Rise Time Measurement	10%-90% Levels
Distortion	± 10%
Insulation Resistance @ 50 Vdc	10K Megohms Min.
Dielectric Withstanding Voltage	50 Vdc
Operating Temperature Range	-55°C to +125°C
Temperature Coefficient of Delay	100 PPM/°C Max.
Minimum Input Pulse Width	3 x Trout or 5 ns W.I.G.
Maximum Duty Cycle	60%

### Test Conditions @ 25°C

Ein	Pulse Voltage	1 Volt Typical
Trin	Rise Time	2.0 ns (10%-90%)
PW	Pulse Width	3 x Total Delay
PP	Pulse Period	4 x Pulse Width

### Notes

Transfer molded for better reliability  
 Compatible with ECL & TTL circuits  
 Terminals: Electro-Tin plate phosphor bronze  
 Performance warranty is limited to specified parameters listed

**Other Delays and Impedances Available  
Contact Sales**

*Specifications subject to change without notice.*

**Corporate Office**  
 Bel Fuse Inc.  
 198 Van Vorst Street, Jersey City, NJ 07302-4496  
 Tel: 201-432-0463  
 Fax: 201-432-9542  
 E-Mail: BelFuse@belfuse.com  
 Internet: http://www.belfuse.com

**Far East Office**  
 Bel Fuse Ltd.  
 8F/8 Luk Hop Street  
 San Po Kong  
 Kowloon, Hong Kong  
 Tel: 852-2328-5515  
 Fax: 852-2352-3706

**European Office**  
 Bel Fuse Europe Ltd.  
 Preston Technology Management Centre  
 Marsh Lane, Preston PR1 8UD  
 Lancashire, U.K.  
 Tel: 44-1772-556601  
 Fax: 44-1772-888366