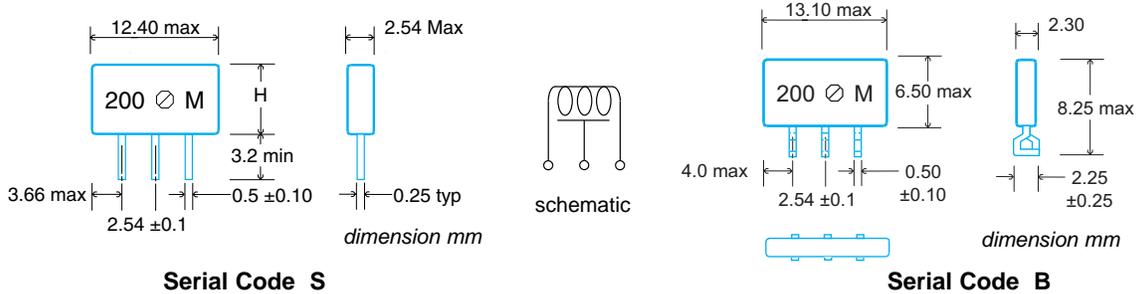


DS Series

1.0 Description

These delay lines provide timing control to 10 nanosecond in a SIP solder leaded three pin package. Thin film on ceramic construction provides for high reliability and high bandwidth performance. The DS1L5 B series are designed for tape and reel packaging and pick and place automated assembly.

2.0 Mechanical - Series B, Please refer to page 43 for land pattern



3.0 Electrical

Type	DS1L
Time delay range	0.1 to 10.0 ns
Time delay tolerance	0.1 to 2.0 ns: ±0.050 ns
	2.25 to 5.0 ns: ±0.125 ns
	5.5 to 10.0 ns: ±0.250 ns
Time delay increment	0.1 to 2.0 ns: 0.10 ns steps
	2.25 to 5.0 ns: 0.25 ns steps
	5 to 10.0 ns: 0.50 ns steps
Characteristic impedance	50 ohm ± 5 ohm
DC resistance	1 ohm/ns max
Rated current	100 mA
Temperature coefficient of time delay	<150 ppm/°C
Insulation resistance	>100 Mohm @ 50 Vdc
Isolation resistance	>100 Mohm @ 50 Vdc
Operating temperature	-40°C to +85°C
Storage temperature	-55°C to +125°C

Serial Code S

Time Delay	Height (H)	Form
0.1 to 5.0 ns	6.35 max	D
5.5 to 10.0 ns	9.20 max	V

Serial Code B

Time Delay	Height (H)	Form
0.1 to 5.0 ns	6.50 max	J

4.0 Part Number

- DS** _____ Product designator
- 1L** _____ Circuit/element qualifier
- 5** _____ Impedance (5 = 50 ohm)
- D** _____ Form factor
- J** _____ Lead frame
- ***** _____ Time delay (200 = 2.0 ns)
- S** _____ Serial code (S = SIP series), (B = SMT series)






Manufacturer(s) of the products described on this page are indicated by their respective logos.