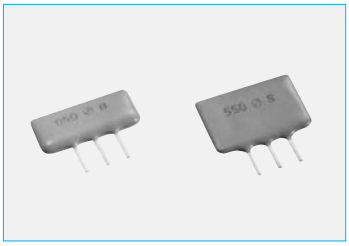


DS1L series, SIP thin film delay lines

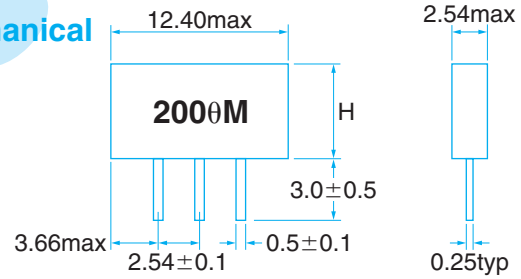
SSM THIN FILM TECHNOLOGY

These delay lines provide timing control to 10 nanosecond in a SIP solder lead three pin package. Thin film on ceramic construction provide for high reliability and high bandwidth performance.

RoHS compliant

SPECIFICATIONS

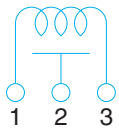
Mechanical



(dimension:mm)

Time Delay	H	Form
0.1~5.0ns	6.35max	D
5.5~10.0ns	9.20max	V

Equivalent circuit



Electrical

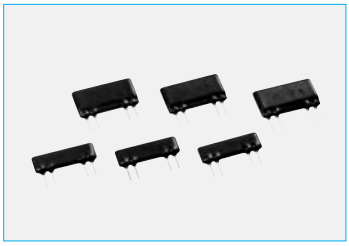
Type	DS1L
Time Delay range	0.1~2.0ns (0.10ns step) 2.25~5.0ns (0.25ns step) 5.5~10.0ns (0.50ns step)
Time Delay Tolerance	±0.050ns (0.10~0.20ns) ±0.125ns (2.25~5.00ns) ±0.250ns (5.00~10.0ns)
Characteristic Impedance	50±5 Ω

Type	DS1L
DC Resistance	1.0 Ω/ns max
Rated Current	100mA
Temp. coefficient of Td	<150ppm/°C
Insulation resistance	>100M Ω 50V
Operating temperature	−10~+85°C
Storage Temperature	−40~+125°C

PART NUMBER

DS1L 5 DJ 200 S (-C)

- (-C) — Given to RoHS compliant products
- S — Serial code
- 200 — Time Delay(200=2.0ns)
- DJ — Lead Frame
- 5 — Impedance(5=50Ω)
- DS1L — Part Code, Number of elements



DL1L series, SIP thin film delay lines

SSM THIN FILM TECHNOLOGY

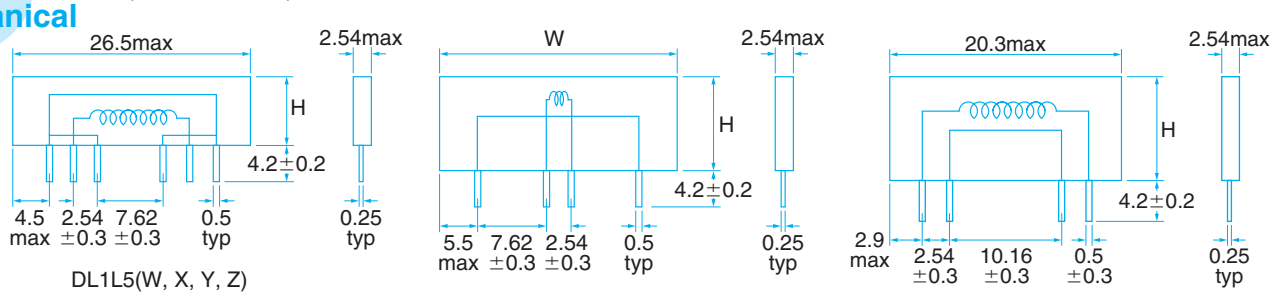
Performance to 5 GHz. For many high frequency applications, discrete, tight tolerance(+/−50 picosecond) delay lines can be used to help solve your TTL, and ECL timing and clock deskew needs.

RoHS compliant

SPECIFICATIONS

Mechanical

(dimension : mm)



DL1L5(W, X, Y, Z)

Time Delay	H	Code
0.1~0.5ns	7.60max	W
0.6~2.6ns	10.10max	X
2.7~3.5ns	14.00max	Y
3.6~5.1ns	16.45max	Z

DL1L5(3, 4, 5, O)

Time Delay	H	W	Code
0.1~1.3ns	7.50max	26.50max	3
1.4~2.5ns	10.10max		4
2.6~3.4ns	12.70max	27.90max	5
3.6~10ns	15.50max		O

DL1L8

Time Delay	Time DelayTolerance	H	Code
0.1~1.2ns	±0.05ns	7.50max	B
1.3~2.6ns	±0.05ns	12.00max	F
2.8ns	±0.10ns		
3.0~5.0ns	±0.25ns		

Electrical

Type	DL1L5(W, X, Y, Z)	DL1L5(3, 4, 5, O)			DL1L8
Time Delay Range	0.1~5.1ns (0.1ns step)	0.1~2.50ns (0.1ns step)	2.6~4.90ns (0.2ns step)	5.0~10.0ns (0.5ns step)	0.1~2.6ns(0.1ns step) 3.0~5.0ns(0.5ns step)
Time Delay Tolerance	±0.050ns	0.05ns	±0.100ns	±0.250ns	above table
Characteristic Impedance	50±5Ω				75±7.5Ω
Retune Loss	20dB min				20dB min
DC Resistance	0.1~0.5ns : 0.5Ωmax 0.6~2.6ns : 1.0Ωmax 2.7~3.5ns : 2.0Ωmax 3.6~5.1ns : 3.0Ωmax	0.1~1.0ns : 0.8Ωmax 1.1~10ns : 0.8Ωmax/ 1ns			0.1~1.0ns : <1.7Ω 0.1~5.0ns : <1.7Ω/ns
Rise / fall time	1ns or less	1ns or less	2ns or less		>1ns
Rated Current	100mA				
Operating temperature	−40~+85°C				−10~+85°C

PART NUMBER

DL1L 5 X K 260 S (-C)

- (-C) — Given to RoHS compliant products
- S — Serial code
- 260 — Time Delay(260=2.6ns)
- K — Lead Frame
- X — Height code
- 5 — Impedance(5=50Ω,8=75Ω)
- DL1L — Part Code

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Susumu:

DS1L5DJ010K-C DS1L5DJ010S-C DS1L5DJ015K-C DS1L5DJ020K-C DS1L5DJ020S-C DS1L5DJ025K-C DS1L5DJ030K-C DS1L5DJ030S-C DS1L5DJ035K-C DS1L5DJ040K-C DS1L5DJ040S-C DS1L5DJ045K-C DS1L5DJ050K-C DS1L5DJ050S-C DS1L5DJ055K-C DS1L5DJ060K-C DS1L5DJ060S-C DS1L5DJ065K-C DS1L5DJ070K-C DS1L5DJ070S-C DS1L5DJ075K-C DS1L5DJ080K-C DS1L5DJ080S-C DS1L5DJ090K-C DS1L5DJ090S-C DS1L5DJ100K-C DS1L5DJ100S-C DS1L5DJ110K-C DS1L5DJ110S-C DS1L5DJ120K-C DS1L5DJ120S-C DS1L5DJ130K-C DS1L5DJ130S-C DS1L5DJ140S-C DS1L5DJ150S-C DS1L5DJ160S-C DS1L5DJ170S-C DS1L5DJ180S-C DS1L5DJ190S-C DS1L5DJ200S-C DS1L5DJ225S-C DS1L5DJ250S-C DS1L5DJ275S-C DS1L5DJ300S-C DS1L5DJ325S-C DS1L5DJ350S-C DS1L5DJ375S-C DS1L5DJ400S-C DS1L5DJ425S-C DS1L5DJ450S-C DS1L5DJ475S-C DS1L5DJ500S-C DS1L5VJ550S-C DS1L5VJ600S-C DS1L5VJ650S-C DS1L5VJ700S-C DS1L5VJ750S-C DS1L5VJ800S-C DS1L5VJ850S-C DS1L5VJ900S-C DS1L5VJ950S-C