D SERIES

SMD VIDEO DELAY LINES

- Surface mount compatible
- Video performance
- Small size, low cost
- 50, 75 or 200 ohms

This range of SMD delay lines is suitable for automatic placement and reflow, and so do not add the excessive production costs associated with through hole devices. They are designed to delay video bandwidth signal with minimal distortion. The equalised lines allow small delay differences between signals to be matched and give excellent response to pulse and bar test signals. They may also be cascaded to give wider ranges of delay times.

Part number	Delay time	Group delay ripple	Impedance
DA01A	1 ns	< 0.5 ns	50 Ω
DA02A	2 ns	< 0.5 ns	50 Ω
DA05A	5 ns	< 1.0 ns	50 Ω
DA10A	10 ns	< 1.0 ns	50 Ω
DB01A	1 ns	< 0.5 ns	75 Ω
DB02A	2 ns	< 0.5 ns	75 Ω
DB05A	5 ns	< 1.0 ns	75 Ω
DB10A	10 ns	< 1.0 ns	75 Ω
DC01A	1 ns	< 0.5 ns	200 Ω
DC02A	2 ns	< 0.5 ns	200 Ω
DC05A	5 ns	< 1.0 ns	200 Ω
DC10A	10 ns	< 1.0 ns	200 Ω

Common specifications:

Tolerance on delay time at 200 kHz	± 2%
Bandwidth	> 5.5 MHz
Amplitude ripple	< 0.1 dB
Return loss	> 27 dB
Pulse and bar K-rating(2T)	< 0.5%
Luma/Chroma Gain Inequality(20T)	< 1%
Luma/Chroma Delay Inequality(20T)	< 5 ns
Temperature range	0 to 70^0C
Package	DR00142A

Other delay times and impedances supplied upon request.

PACKAGE DETAIL