

Video & Pulse - Fixed Delay Lines

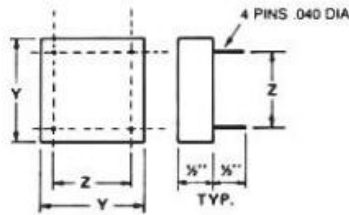
Series VES Fixed Delay Lines

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Printed Circuit Series (PC)



- All Video Applications
- Excellent Delay Linearity
- Low Insertion Loss
- All VES Units are Flat to Within .1dB up to 5.5 MHz

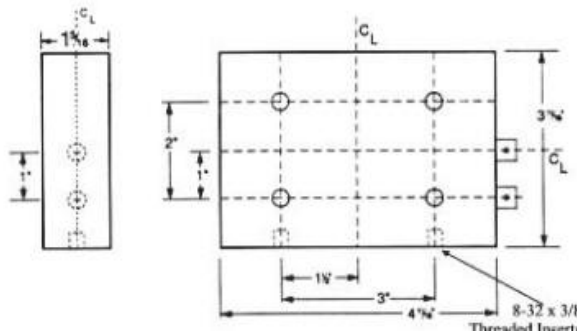


Package Type	Y	Z
A	2"	1-1/2"
B	2-1/2"	2"
C	3"	2-1/2"

Rack Mountable Series (RM)



- All Video Applications
- Excellent Delay Linearity
- Low Insertion Loss
- All VES Units are Flat to Within .1dB up to 5.5 MHz



VES UNITS FOR VIDEO APPLICATIONS (5.5 MHz)

Part No.	Time Delay (Nanoseconds)	Maximum Insertion Loss @ 100KHz (dB)	Max. Rise Time (Nanoseconds)	PC Package Type
VES050L	50	.40	6.0	A
VES100L	100	.50	9.5	A
VES150L	150	.75	11.5	A
VES200L	200	1.00	13.0	B
VES250L	250	1.25	14.0	B
VES300L	300	1.50	16.0	B
VES350L	350	1.75	18.0	C
VES400L	400	2.00	20.0	C
VES450L	450	2.25	22.0	C
VES500L	500	2.50	24.0	C

Standard Delay Tolerance $\pm 5\%$
 Amplitude Flatness 100 KHz to 5.5 MHz: $\pm .1$ dB max.
 Return Loss Greater Than 20dB to 5.5 MHz.
 Pulse Distortion: Less than 4% with 20 nanoseconds input.

***Any Delay from 25 to 500 nanoseconds can be manufactured.
 Units can be manufactured to delay tolerance of $\pm 2\%$***

TO SPECIFY: Add PC or RM to Part No.(Examples: VES050LPC,VES500LRM)

VES UNITS FOR HIGH FREQUENCY (11 MHz) VIDEO APPLICATIONS

Part No.	Time Delay (Nanoseconds)	Maximum Insertion Loss @ 100KHz (dB)	Max. Rise Time (Nanoseconds)	PC Package Type
VES050H	50	1.50	6.0	A
VES100H	100	1.50	9.5	A
VES150H	150	2.00	11.5	A
VES200H	200	2.50	13.0	B
VES250H	250	2.95	14.0	B
VES300H	300	3.25	16.0	B
VES350H	350	3.50	18.0	C
VES400H	400	3.70	20.0	C
VES450H	450	3.85	22.0	C
VES500H	500	4.00	24.0	C

Standard Delay Tolerance $\pm 5\%$
 Amplitude Flatness 100 KHz to 11 MHz: ± 2 dB max.
 Return Loss: 100 KHz to 5.5 MHz, greater than 20dB
 5.5 MHz to 11 MHz, greater than 18 dB
 Pulse Distortion: Less than 4% with 20 nanoseconds input.

***Any Delay from 25 to 500 nanoseconds can be manufactured.
 Units can be manufactured to delay tolerance of $\pm 2\%$***

TO SPECIFY: Add PC or RM to Part No.(Examples: VES050HPC,VES500HRM)

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