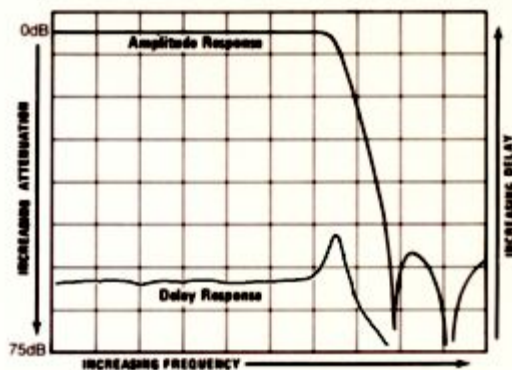


Delay Equalized Lowpass Filters

vfl-mvfl_Pr

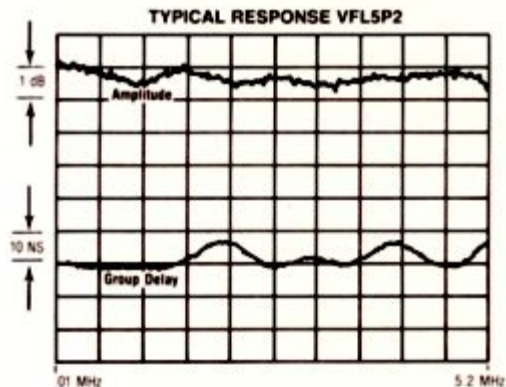
Digital Filters for Video Processing

- ▶ Designed for Analog and Digital Video Filtering
- ▶ Band Limiting of Video Signals Very Low Distortion Due to the Tight Control of Delay in the Passband
- ▶ Fast Transition from Passband to Stopband along with Good Stopband Rejection to over 100 MHz
- ▶ Also Used as Anti-Aliasing Pre Filters before Analog to Digital Converters
- ▶ When used as Post-Aliasing Filters in Digital Processing Applications, the Passband can be shaped to correct for $\sin x/x$ (See VSL series)

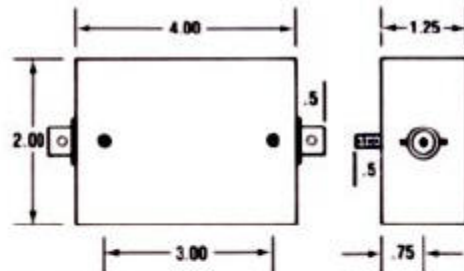


**TYPICAL AMPLITUDE & DELAY RESPONSE
VFL & NEW MINIATURE SIZE MVFL SERIES**

These graphs display the typical amplitude and delay response of the VFL series of Delay Equalized Lowpass Filters. This family of filters is based on a transition shape factor of 1.375.



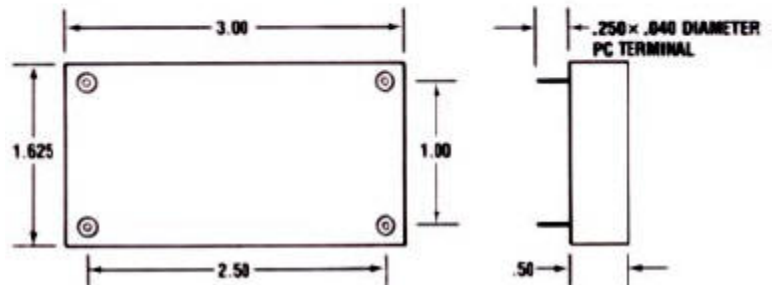
- **Maximum Delay Variation** = 3% to -0.25 dB Frequency
- **Maximum Passband Ripple** = ± 0.125 dB. 10 KHz to Passband end
- **Maximum Insertion Loss** < 1 dB at 10 KHz
- **Impedance** = 75 Ohms
- **VFL Size:** 4" x 2" x 1-1/4" in metal cans with BNC Connectors
- **MVFL Size:** 3" x 1-5/8" x 1/2" in metal can with terminals for PC mounting
- **Delivery from Stock**



VFL series with B.N.C. connectors size = 4" x 2" x 1 1/4"
VCL series with B.N.C. connectors size = 5" x 2" x 1 1/4"

NEW MINIATURE SIZE MVFL

MVFL SERIES WITH PC TERMINALS 3" x 1 5/8" x 1/2"



VFL and Miniature MVFL Series

Standard Size Max. Insertion Loss = 1dB	Miniature Size Max. Insertion Loss = 2dB	Max. .25dB Attenuation @ Frequency (MHz)	Max. 3.0dB Attenuation @ Frequency (MHz)	Min. 45dB Attenuation @ Frequency (MHz)	Approximate Passband Delay (Nanoseconds)
Part Number	Part Number				
VFL1P4	MVFL1P4	1.40	1.54	1.92	1912
VFL1P7	MVFL1P7	1.75	1.92	2.41	1691
VFL2P0	MVFL2P0	2.00	2.19	2.75	1483
VFL2P2	MVFL2P2	2.25	2.45	3.10	1325
VFL2P7	MVFL2P7	2.75	3.00	3.77	1082
VFL3P2	MVFL3P2	3.20	3.50	4.40	928
VFL3P5	MVFL3P5	3.50	3.84	4.82	846
VFL3P8	MVFL3P8	3.80	4.16	5.22	781
VFL4P0	MVFL4P0	4.00	4.38	5.51	741
VFL4P5	MVFL4P5	4.50	4.93	6.19	659
VFL5P0	MVFL5P0	5.00	5.49	6.98	593
VFL5P2	MVFL5P2	5.20	5.70	7.16	570
VFL6P0	MVFL6P0	6.00	6.58	8.27	494
VFL6P5	MVFL6P5	6.50	7.12	8.95	457

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We are pleased to accept

