

LEXOR

A division of customDesignTechnologies Ltd

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VN4F

Lexor Video Filter Networks, Low-Pass Signal Handling

Basic Specification

A range of Passive High Frequency Filters for applications in Television, Radio-Frequency and Instrumentation Circuits to minimise interference from out of band unwanted signals, by band-limiting, frequency separation and noise and interference suppression. Based upon Seventh order Cauer Filter design incorporating high stability inductors to achieve optimum performance, they provide sharp cut off characteristics and low ripple in the pass-band while providing good return-loss performance to match with external equipment. Controlled high attenuation in the stopband ensures a high degree of discrimination and the incorporation of delay equalising networks provides excellent Group-Delay performance.

Video Low-pass filters are presented in 36 pin, 0.6", Dual-in-line packages or may be "boxed" with B.N.C. connectors.

Ripple in Pass-band ----- $\pm 0.15\text{dB}$ Max
 Pass-band insertion loss ----- 0.3 - 1.5dB Across Range
 Pulse "K" Rating ----- $< 1\%$
 Group delay in Pass-band e.g. ----- $< 3\%$ of Delay Value (see table below)
 Group delay bandwidth ----- $> 75\%$ of Passband
 Nominal Frequency range ----- 0.5MHz to 10MHz
 Impedances ----- 75 ohm (preferred) and 50 ohms
 Operating Temperature Range ----- -20°C to $+100^{\circ}\text{C}$

Nominal Frequency MHz	Low Pass Band Edge	Stop Band High Edge 45db@MHz	Delay	Z-50	Z-75
0.5	0.51	0.63	5520	02	35
1.0	1.01	1.25	2760	03	36
1.2	1.22	1.50	2300	04	37
1.3	1.27	1.57	2208	05	38
1.5	1.53	1.89	1833	06	39
2.0	2.03	2.50	1380	07	40
2.5	2.53	3.13	1104	08	41
2.8	2.81	3.46	1000	09	42
3.0	3.04	3.75	920	10	43
3.1	3.18	3.93	880	11	44
3.5	3.55	4.38	789	12	45
3.7	3.81	4.70	736	13	46
4.0	4.05	5.01	686	14	47
4.3	4.30	5.31	648	15	48
4.3	4.40	5.43	638	16	49
4.5	4.56	5.63	610	17	50
4.8	4.98	5.08	570	18	51
5.0	5.10	6.29	550	19	52
5.5	5.61	8.92	500	20	53
5.6	5.70	7.03	492	21	54
5.8	5.92	7.30	474	22	85
6.0	6.12	7.55	458	23	56
6.5	6.63	8.18	423	24	87
7.0	7.14	8.81	393	25	58
7.5	7.65	9.44	367	26	89
8.0	8.16	10.00	343	27	60
8.5	8.69	10.62	323	28	61
9.0	9.18	11.25	304	29	62
9.5	9.69	11.87	289	30	63
10.0	10.20	12.58	278	31	64
10.5	10.68	13.14	247	68	71
11.00	11.18	13.76	226	69	72
12.00	12.17	15.00	184	70	73

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