Introduction

Electrical Characteristics

The unique technology of RF Immunity enables the integration of a variety of filter types and a diversity of transient protections, into a single filtered connector.

This section of the catalog presents the electrical characteristic of the available filters and transient protections and their filter codes. If you select identical filters, transient protections or a combination of these two for all contacts, fill in the filter code into the P/N

The filter codes are applicable only when the same filter type is used for all the connector contacts.
If selected, a custdmized combination of filters and/or transient protections cannot be coded for the P/N by the customer. For such P/N, replace the P/N filter code with "XXXX" and contact the sales department.

Five filter types (C, C ^{2}, L, J, and π) and two transient protection types (0.1J, and 0.3J), and the combinations of all filter types with all transient protection types are characterized in this section. For explanations regarding the selection of the most appropriate filter, please refer to the Design Notes (page 71).

General electrical characteristics

Working Voltage(WV) [VDC]	A variety of operating voltages can be selected, from 6.3VDC. up to 2000VDC. Note that the operating voltage limits the capacitance of the filter. Both the filter capacitance and operating voltage correlate to the selected insert arrangement of the connector. Refer to the Electrical Characteristics V/S Insert Arrangement section (page 28)				
Dielectric Withstanding Voltage (DWV)	WV<200VDC		DWV - 250%		
	201 VDC<WV<500VDC		DWV - 150%		
	WV>500VDC		DWV - 120%		
Insulation Resistance	25°C		500 Ω F		
	125°C		50Ω F		
1[A]	#22 Contact	#20 Contact	#16 Contact	#12 Contact	# 8 Contact
	5	7.5	13	23	35

The structure of this section and the use of the following Frequency Range vs. Filter Type and Page Number table and of the Contents of Section, enables the designer to quickly and easily select the correct filter, transient protection or the combination of both

Frequency Range vs. Filter Type and Page Number

Frequency Range	Filter Cutoff Frequency	Page			
		C Filter (1) (2)	C^2 Filter (1) (2)	L&JFilter (1) (2)	π Filter (1)
VFH and UHF 300MHz ≤ f ≤ 3Ghz	f_{co} ≥ 30MHz	33	38	43	48
HF 3MHz ≤ f ≤ 30MHz	f_{co} ≥ 3MHz	34	39	44	49
MF 300KHz ≤ f ≤ 3MHz	f_{co} ≥ 300KHz	35	40	45	50
LF 30KHz ≤ f ≤ 300KHz	f_{co} ≥ 30KHz	36	41	46	51
AUDIO f ≤ 30KHz	f_{co} < 30KHz	37	42	47	52

Note: For other filter topologies, e.g. Double L&J, H i (Double π), T and Double T, contact the sales department.

(1) Refer to the Design Notes (page 71) for explanation regarding the differences between these filter topologies and for equivalent circuits.
(2) Both C and C^2 type filter have a C type topology. The C^2 type filter provides higher attenuation.
(3) J type filters have the same topology as L type filter. Refer to the illustrated description on page 75 for details related to the differences between the two.

Content of Section

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Corry Micronics, Inc. One Plastics Rd. - Corry, PA 16407
(814) 664-7728 Fax 9814) 664-4582 www.cormic.com

C Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) f_{co} >_ 30MHz.

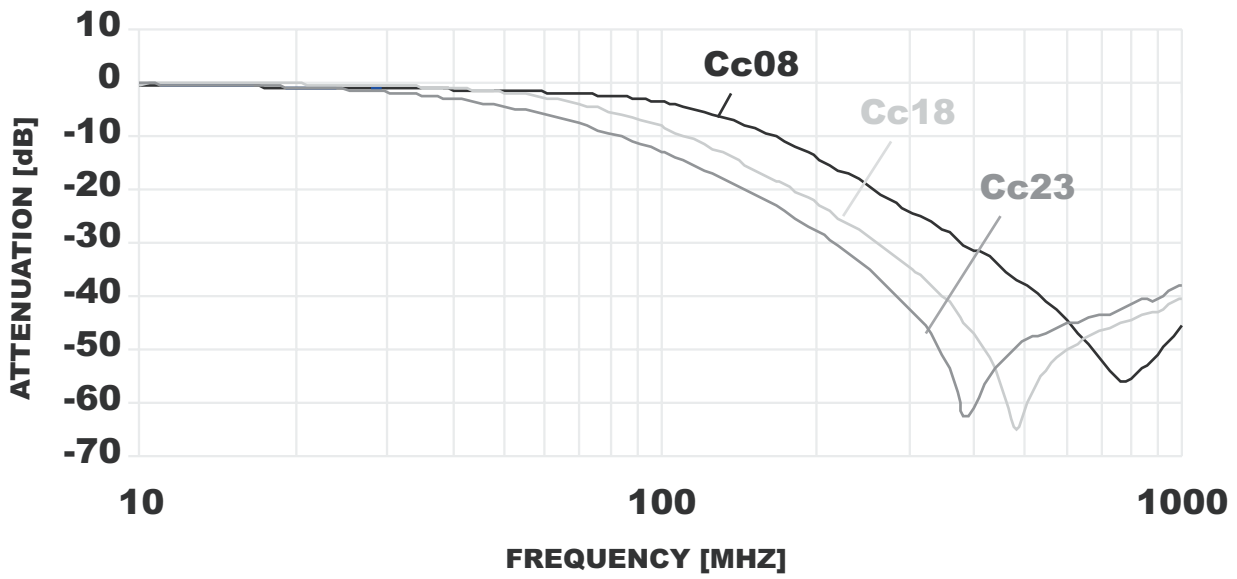
Minimum Attenuation

Filter Code	Typical Cap. [pF] (2)	f_{co} [MHZ] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cc08	47	92	0	0	0	0	0	0	19	32	37
Cc18	120	62	0	0	0	0	0	2	27	54	30
Cc23	180	40	0	0	0	0	1	7	37	43	29

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ±20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50 Ω system, please refer to the design notes.

C Filter

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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C Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) f_{co} > 3MHz.

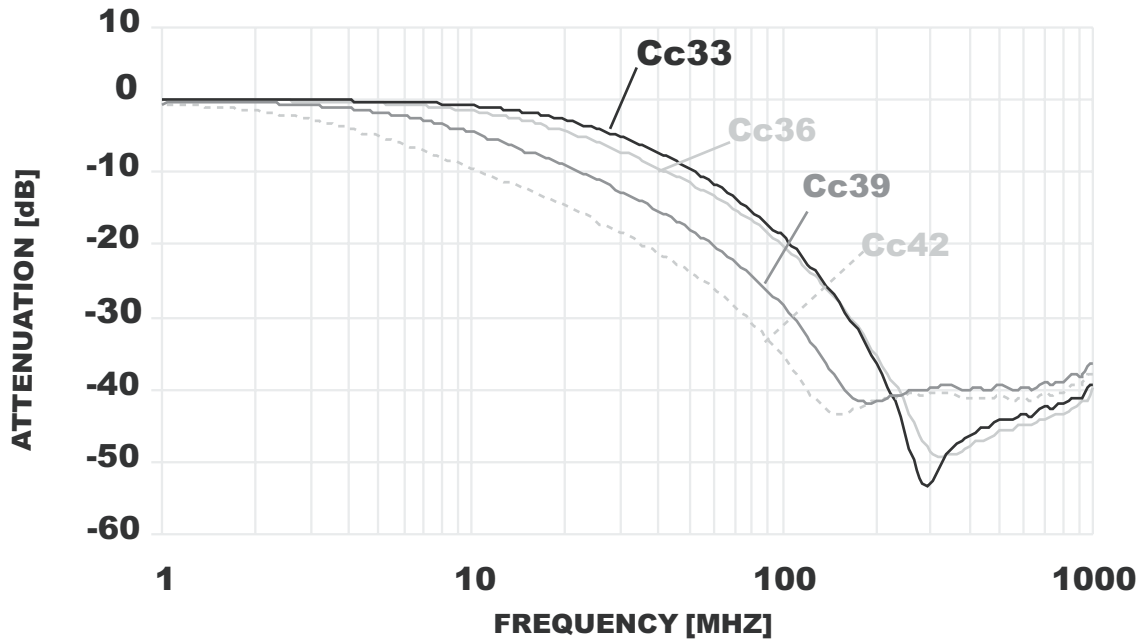
Minimum Attenuation

Filter Code	Typical Cap. [pF] (2)	f_{co} [MHZ] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cc33	330	20.00	0	0	0	2	6	13	44	37	28
Cc36	470	15.20	0	0	0	4	8	14	43	40	31
Cc39	1000	7.30	0	0	1	9	14	22	34	33	26
Cc42	2200	3.19	0	2	6	15	20	30	34	34	28

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

C Filter

Typical measured filter attenuation



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C Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f_{co} \geq$ 300KHz.

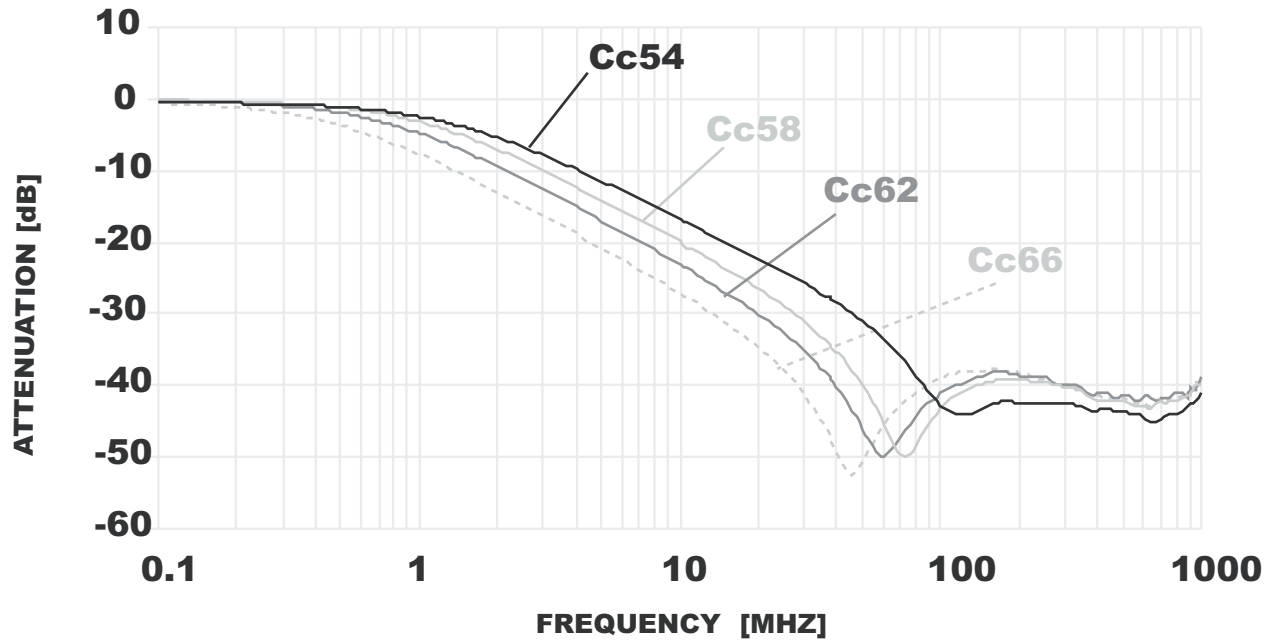
Minimum Attenuation

Filter Code	Typical Cap. [nF] (2)	f_{co} [MHZ] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cc54	4.7	1.180	0	9	13	22	28	37	37	37	33
Cc58	6.8	0.925	0	11	16	27	35	37	34	36	30
Cc62	10	0.695	2	15	20	32	43	36	35	36	30
Cc66	15	0.420	5	18	23	37	46	32	33	34	28

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

C Filter

Typical measured filter attenuation



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C Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

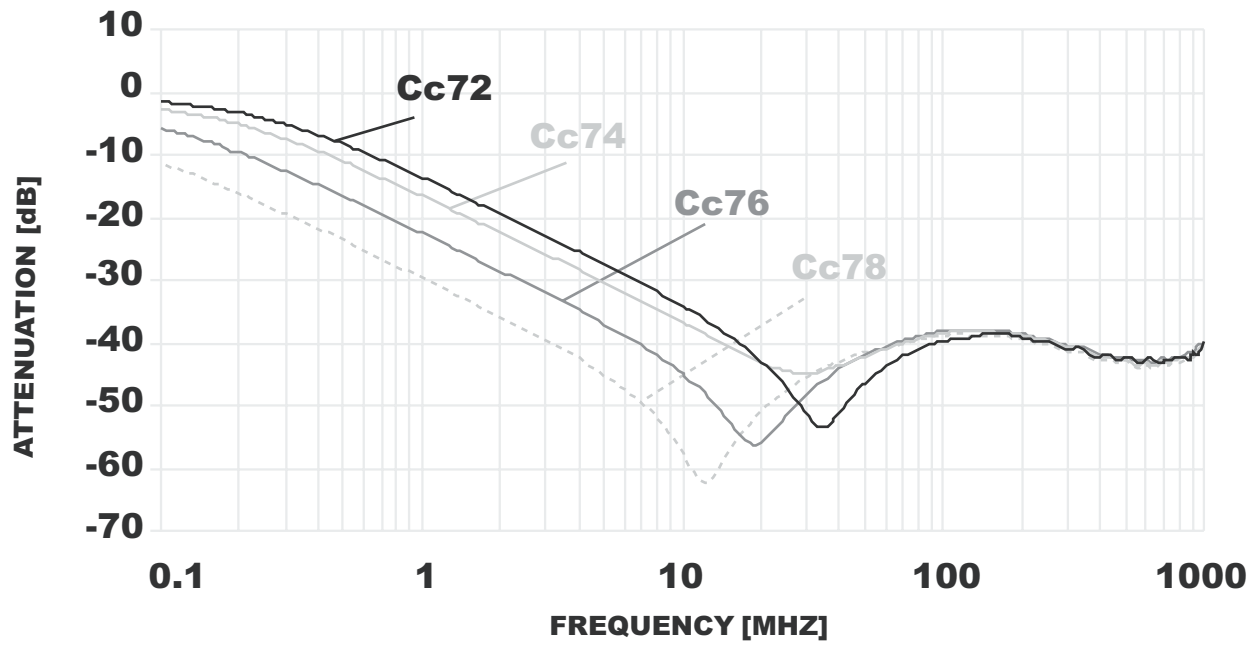
Typical cut-off frequency (-3dB) $f_{co} \geq$ 30KHz.

Minimum Attenuation

Filter Code	Typical Cap. [nF] (2)	f_{co} [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cc72	33	182	11	25	31	48	43	34	36	37	32
Cc74	47	109	14	28	33	40	38	32	34	36	31
Cc76	100	63	20	34	40	43	38	33	35	37	32
Cc78	220	30	27	42	53	41	38	33	35	36	31

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



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C Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f_{co} \geq$ 30KHz.

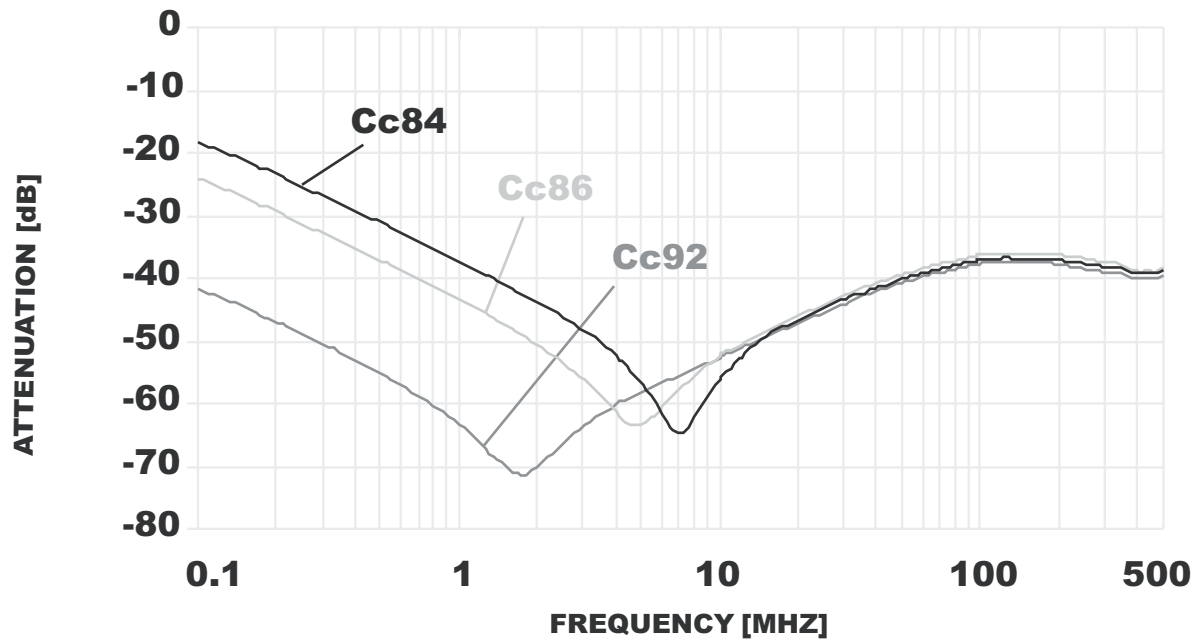
Minimum Attenuation

Filter Code	Typical Cap. [µF] (2)	f_{co} [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)							
			1	5	10	30	50	100	300	500
Cc84	0.47	12.4	35	54	53	40	37	32	33	33
Cc86	1	6.2	41	59	47	38	34	29	30	30
Cc92	10	0.67	61	54	48	40	36	32	33	33

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

C Filter

Typical measured filter attenuation



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C^2 Filter

Electrical Characteristics

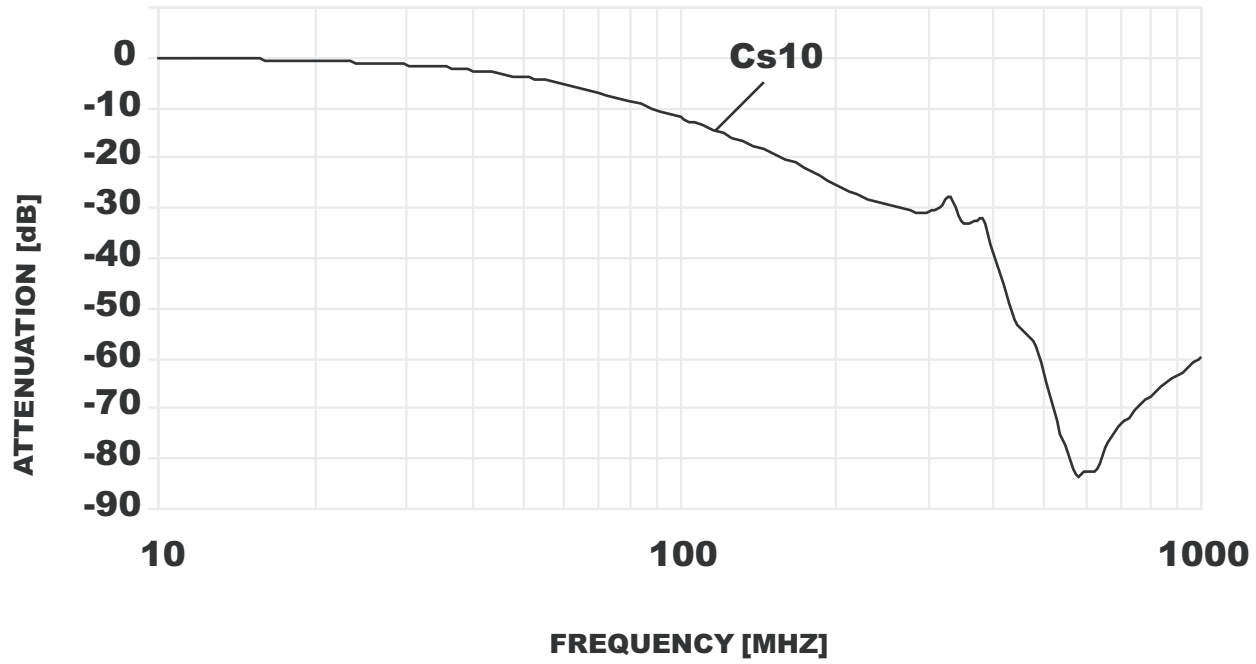
Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f_{co} \geq$ 30MHz.

Filter Code	Typical Cap. [pF] (2)	f_{co} [MHZ] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cs10	164p	41.6	0	0	0	0	0	6	24	57	52

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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C^2 Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

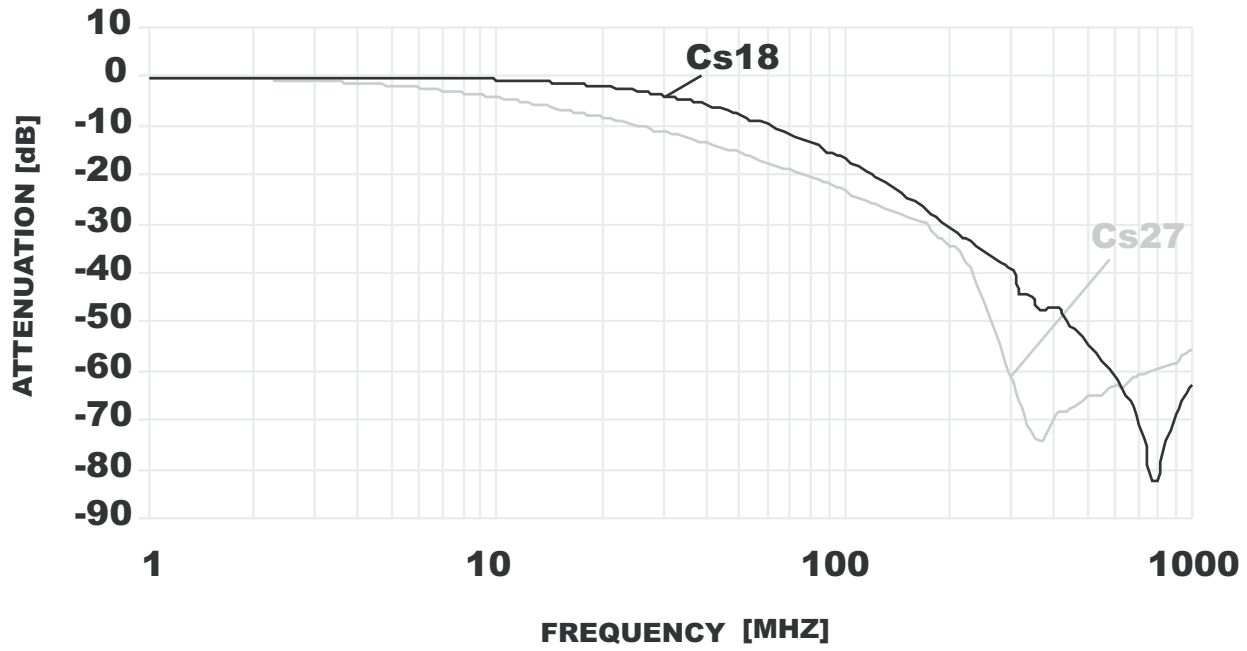
Typical cut-off frequency (-3dB) $f_{co} \geq$ 3MHz.

Minimum Attenuation

Filter Code	Typical Cap. [pF] (2)	f_{co} [Mhz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cc18	267	24.8	0	0	0	0	4	11	34	45	57
Cc23	660	9.35	0	0	0	7	12	18	62	57	50
Cc27	940	7.35	0	0	1	7	12	17	56	57	50

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



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C^2 Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

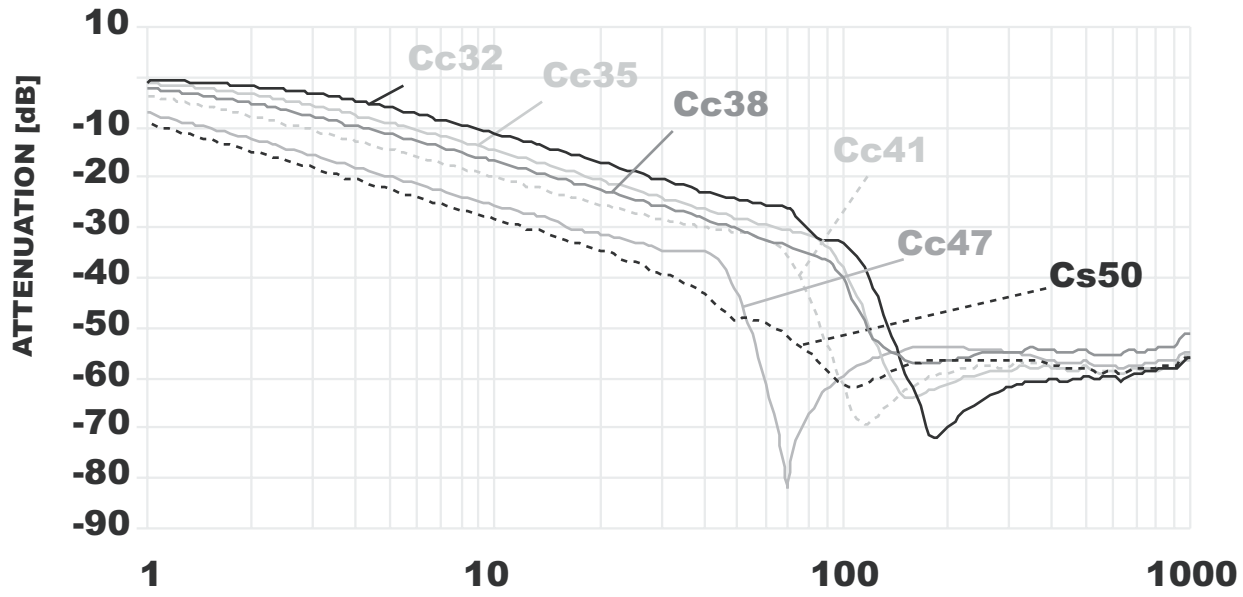
Typical cut-off frequency (-3dB) f_{co} >_300KHz.

Minimum Attenuation

Filter Code	Typical Cap. [nF] (2)	f_{co} [Mhz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cs32	2.4	2.77	0	3	7	16	21	25	56	53	49
Cs35	3.6	1.8	0	7	11	20	24	32	51	50	50
Cs38	5.7	1.23	0	9	13	22	27	33	48	47	43
Cs41	7.8	0.79	1	12	16	24	27	55	51	52	50
Cs47	13.6	0.450	5	17	22	30	39	53	49	51	49
Cs50	19.7	0.330	7	20	25	34	44	55	50	51	49

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



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C^2 Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

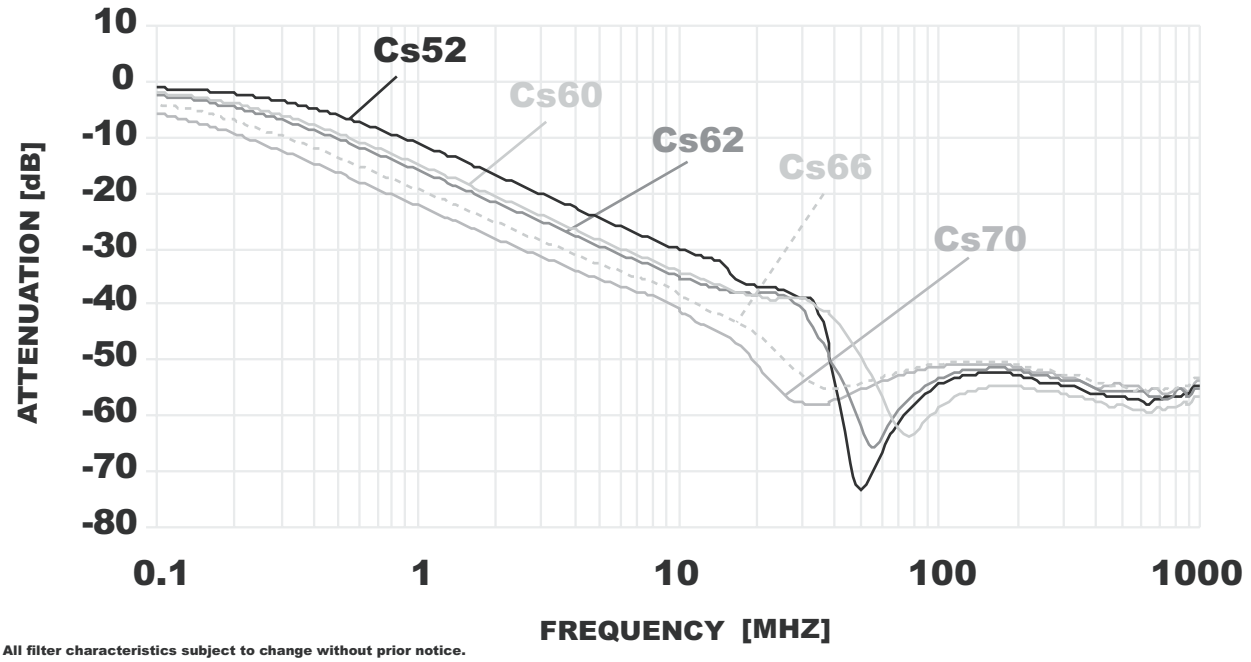
Typical cut-off frequency (-3dB) $f$co $\geq$ 30KHz.

Minimum Attenuation

Filter Code	Typical Cap. [nF] (2)	$f$co [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Cs52	25	256	9	22	27	35	60	49	49	51	49
Cs60	39.8	142	12	26	31	36	45	53	50	52	50
Cs62	43	125	13	27	31	37	56	48	48	49	48
Cs66	66	98	17	30	34	49	51	45	47	49	48
Cs70	94	94	20	33	37	50	50	45	47	48	46

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



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C^2 Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

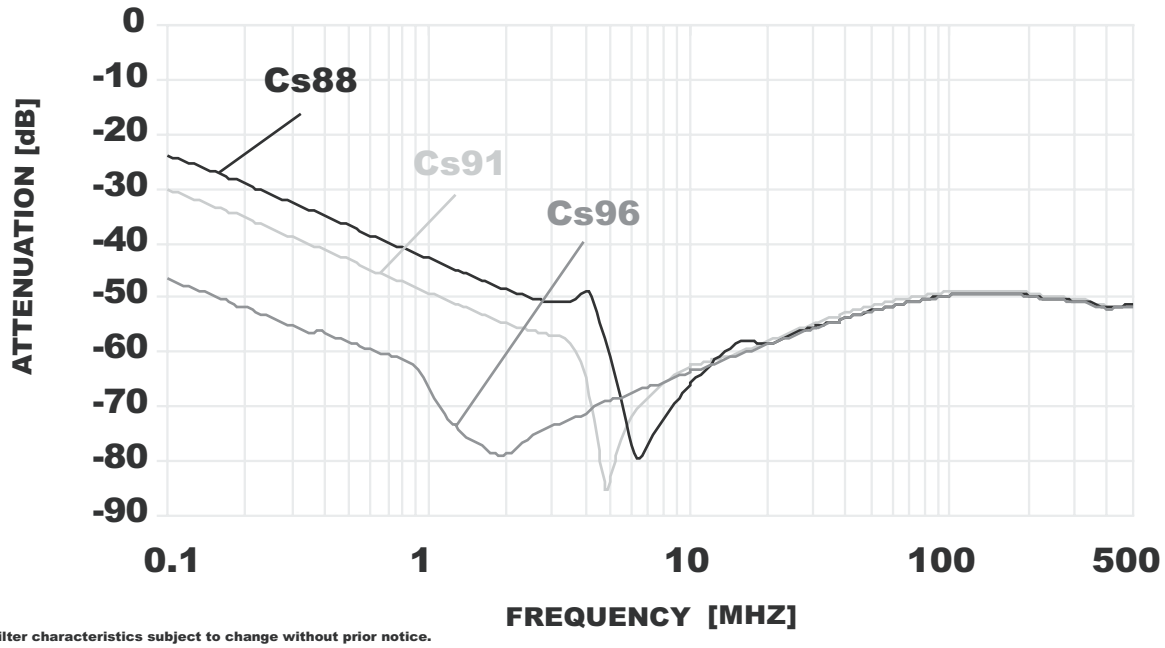
Typical cut-off frequency (-3dB) $f_{co} \leq$ 30KHz.

Minimum Attenuation

Filter Code	Typical Cap. [μF] (2)	f_{co} [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)							
			1	5	10	30	50	100	300	500
Cs88	0.94	6.5	40	54	61	50	47	42	44	44
Cs91	2	3.1	46	73	57	49	46	41	42	42
Cs96	20	0.35	62	65	59	51	48	43	44	45

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50 Ω system, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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L&J Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f$co $\geq$ 30MHz.

Minimum Attenuation

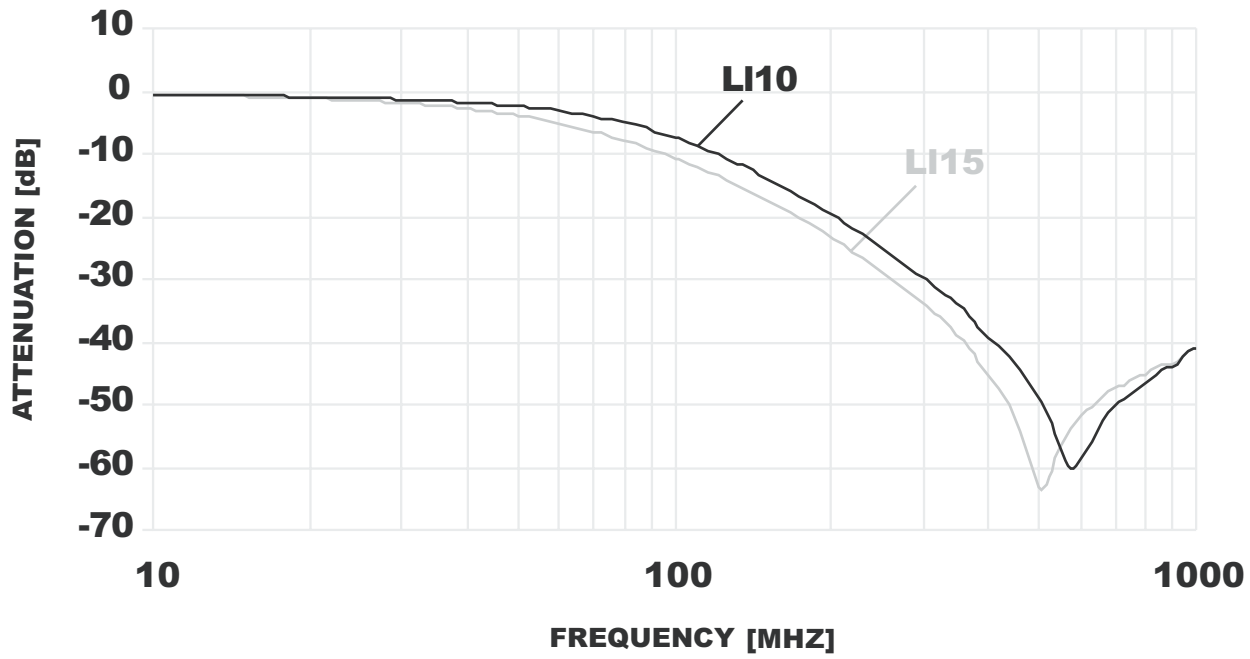
Filter Code (*)	Typical Cap. [pF] (2)	$f$co [Mhz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	`100	300	500	1000
LI10	82	54.3	0	0	0	0	0	2	24	42	31
LI15	120	42.5	0	0	0	0	0	5	29	45	31

(*) For J Filter, replace LL with JJ

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50 Ωsystem, please refer to the design notes.

L&J Filter

Typical measured filter attenuation



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L&J Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f_{co} \geq$ 3MHz.

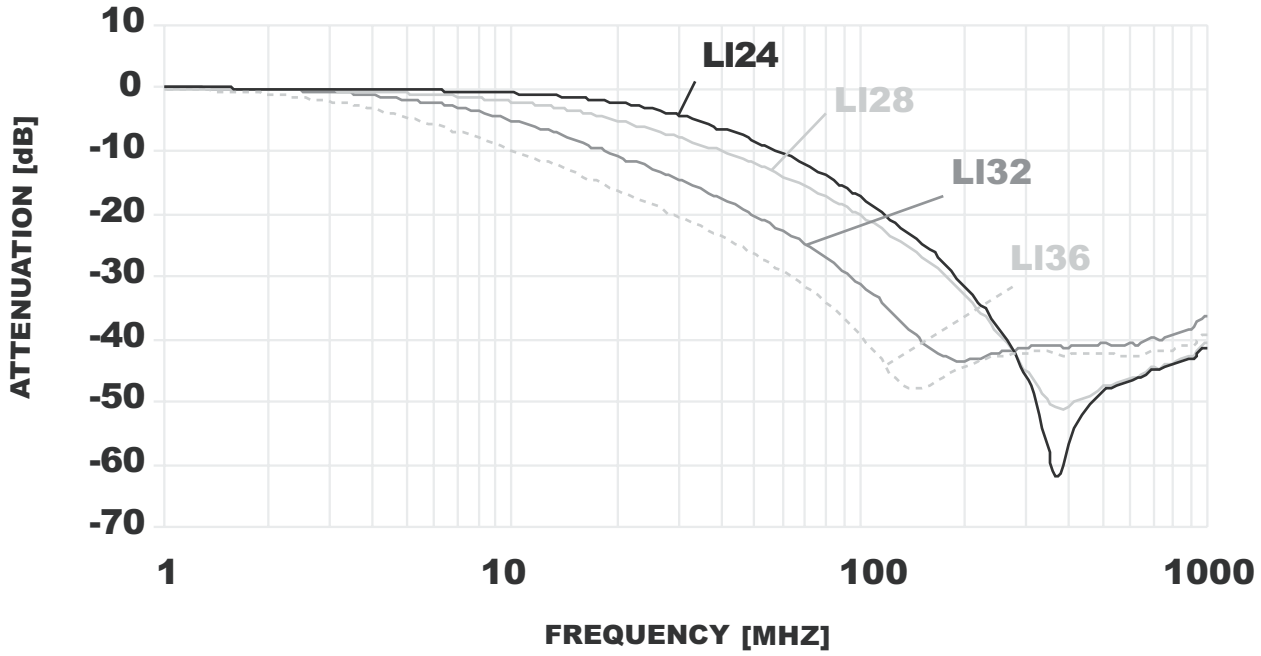
Minimum Attenuation

Filter Code (*)	Typical Cap. [pF] (2)	f_{co} [Mhz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
LI24	220	23.3	0	0	0	1	5	12	40	42	33
LI28	470	12.6	0	0	0	4	8	14	38	40	31
LI32	1000	6.85	0	0	1	11	17	25	36	35	28
LI36	1800	3.7	0	2	6	17	23	33	37	34	31

(*) For J Filter, replace LL with JJ

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50 Ωsystem, please refer to the design notes.

Typical measured filter attenuation



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L&J Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f$co $\geq$ 300KHz.

Minimum Attenuation

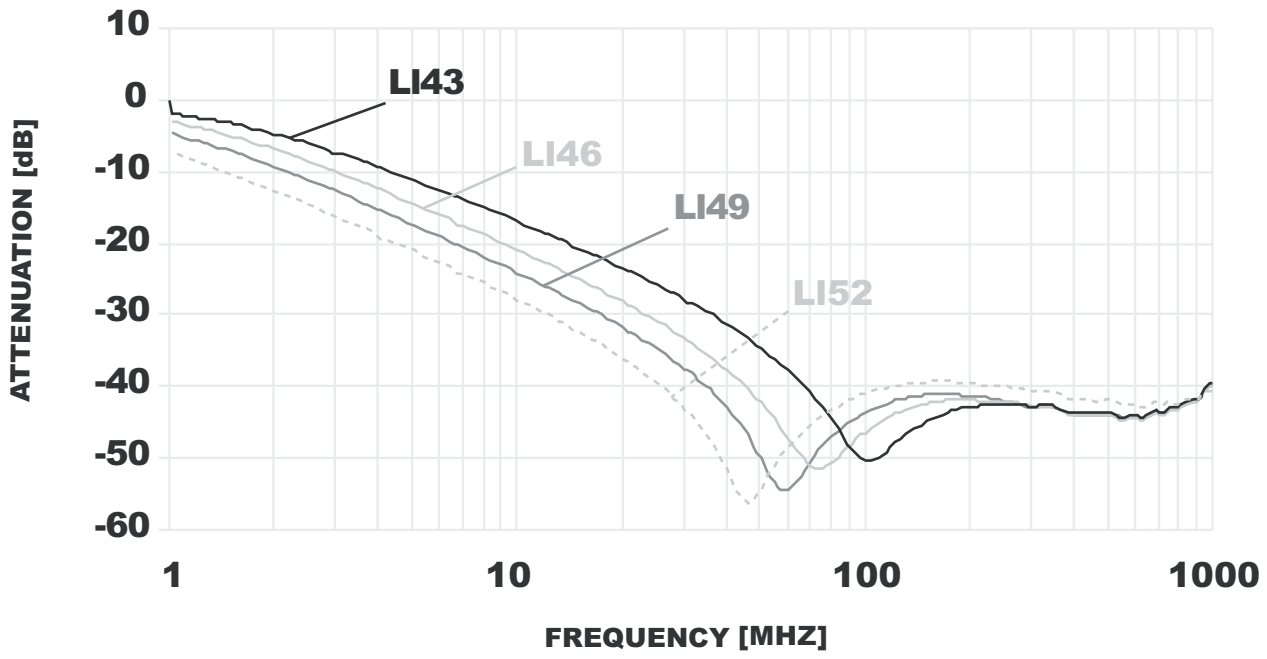
Filter Code (*)	Typical Cap. [nF] (2)	f_{co} [Mhz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
LI43	4.7	1.4	0	8	13	24	31	44	37	38	31
LI46	6.8	0.975	0	12	17	30	39	41	37	38	31
LI49	10	0.690	2	15	21	34	44	38	36	38	30
LI52	15	0.46	5	18	24	39	50	36	35	36	31

(*) For J Filter, replace LL with JJ

(1) Measured in 50 Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50 Ω system, please refer to the design notes.

L&J Filter

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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L&J Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f$co $\geq$ 30KHz.

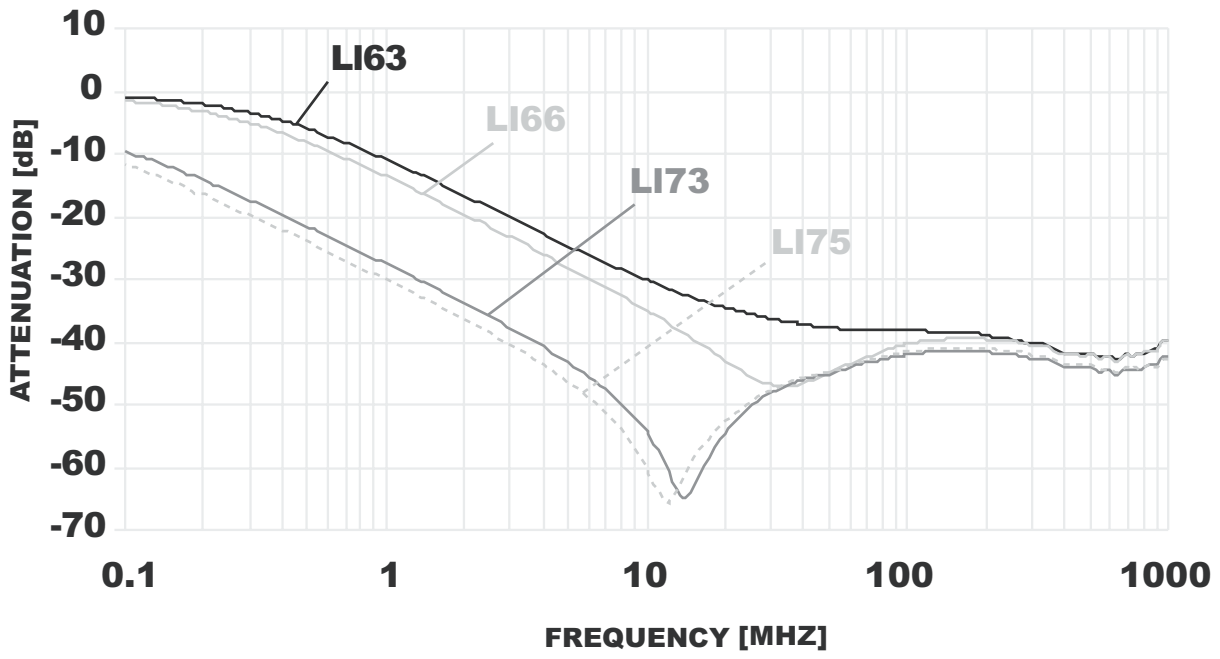
Minimum Attenuation

Filter Code (*)	Typical Cap. [nF] (2)	$f$co [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
LI63	22	265	8	22	25	30	31	31	34	36	30
LI66	33	179	11	26	31	42	41	35	35	37	31
LI73	180	38	25	40	50	44	40	35	36	37	34
LI75	220	31	28	44	56	43	40	35	36	38	32

(*) For J Filter, replace LL with JJ

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ωsystem, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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L&J Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f_{co} \leq$ 30KHz.

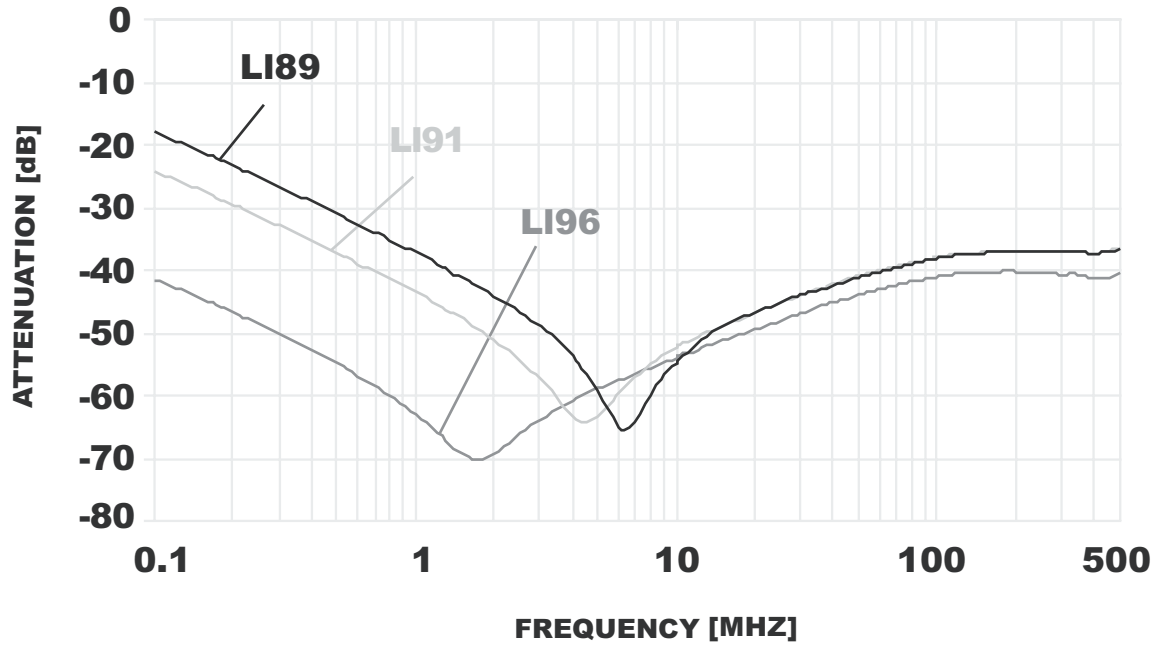
Minimum Attenuation

Filter Code (*)	Typical Cap. [μF] (2)	f_{co} [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)							
			1	5	10	30	50	100	300	500
LI89	0.47	11.5	35	55	51	40	38	33	32	31
LI91	1	6.2	41	60	40	40	37	32	31	31
LI96	10	0.68	60	55	49	42	39	34	34	33

(*) For J Filter, replace LL with JJ

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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π Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

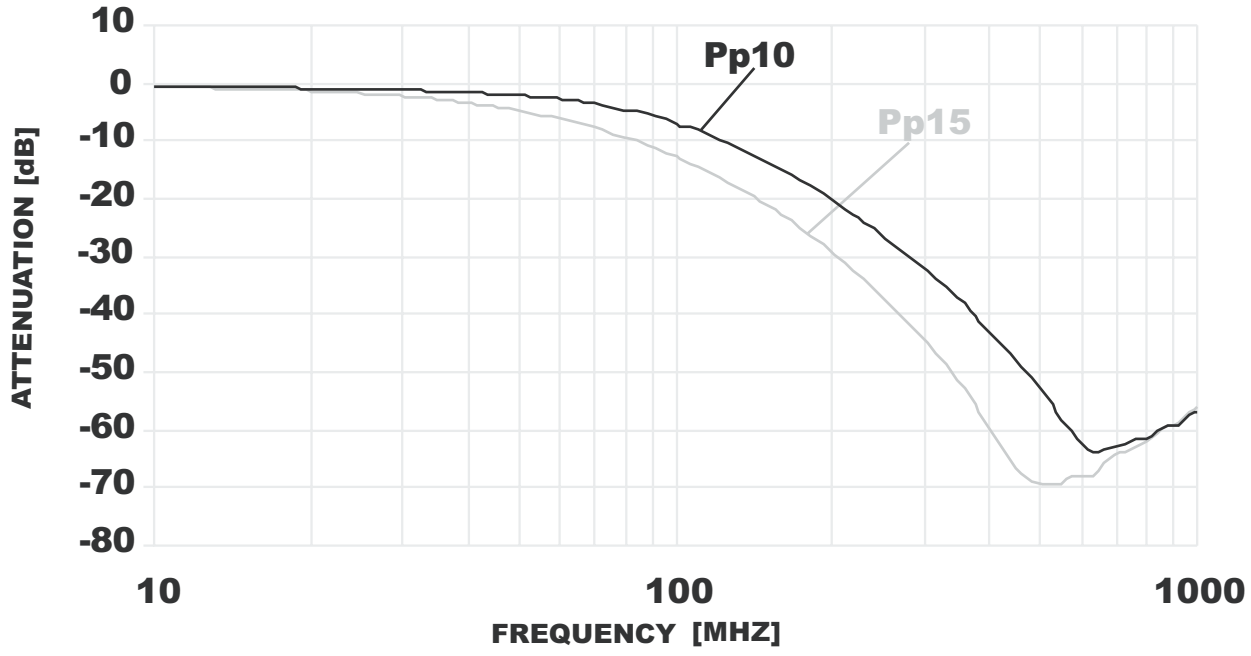
Typical cut-off frequency (-3dB) $f_{co} \geq$ 30MHz.

Minimum Attenuation

Filter Code	Typical Cap. [pF] (2)	f_{co} [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Pp10	94	62.7	0	0	0	0	0	1	26	46	52
Ppl15	164	36.2	0	0	0	0	1	7	39	62	51

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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π Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

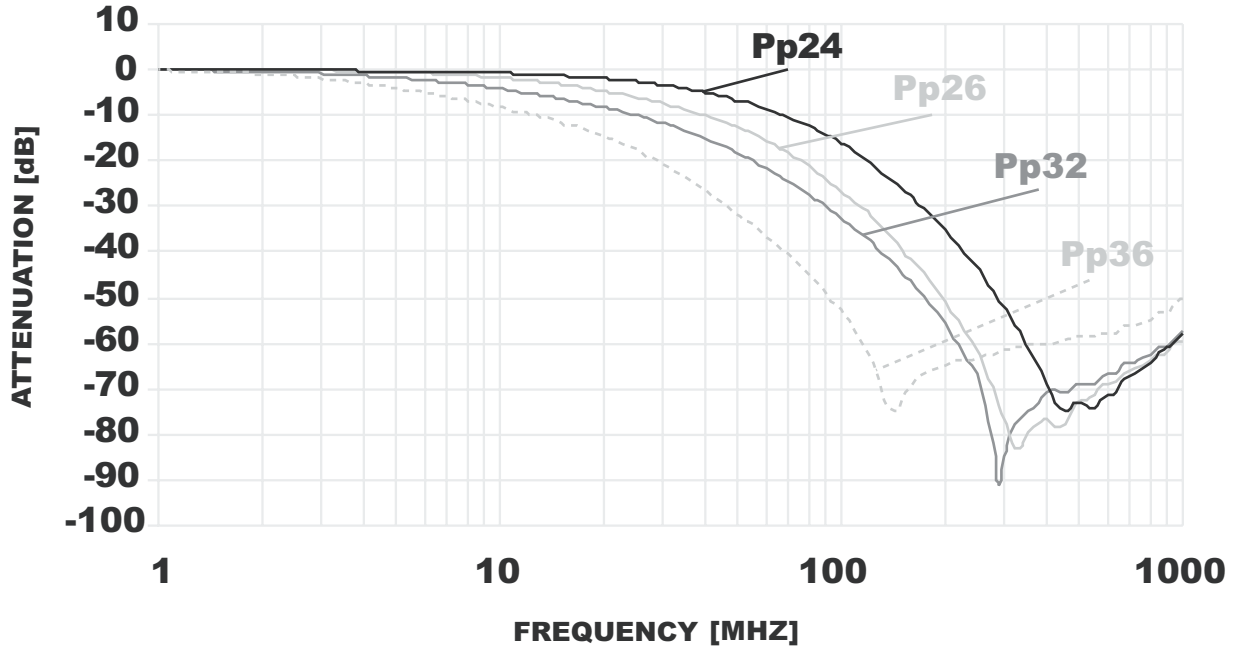
Typical cut-off frequency (-3dB) $f_{co} \geq$ 3MHz.

Minimum Attenuation

Filter Code	Typical Cap. [pF] (2)	f_{co} [Mhz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Pp24	240	28.1	0	0	0	0	3	10	45	63	50
Pp28	440	14.5	0	0	0	4	9	20	67	65	54
Pp32	940	7.7	0	0	1	8	15	27	66	60	46
Pp36	2000	3.9	0	2	5	17	28	47	56	53	45

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ωsystem, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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π Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

Typical cut-off frequency (-3dB) $f_{co} \geq$ 300KHz.

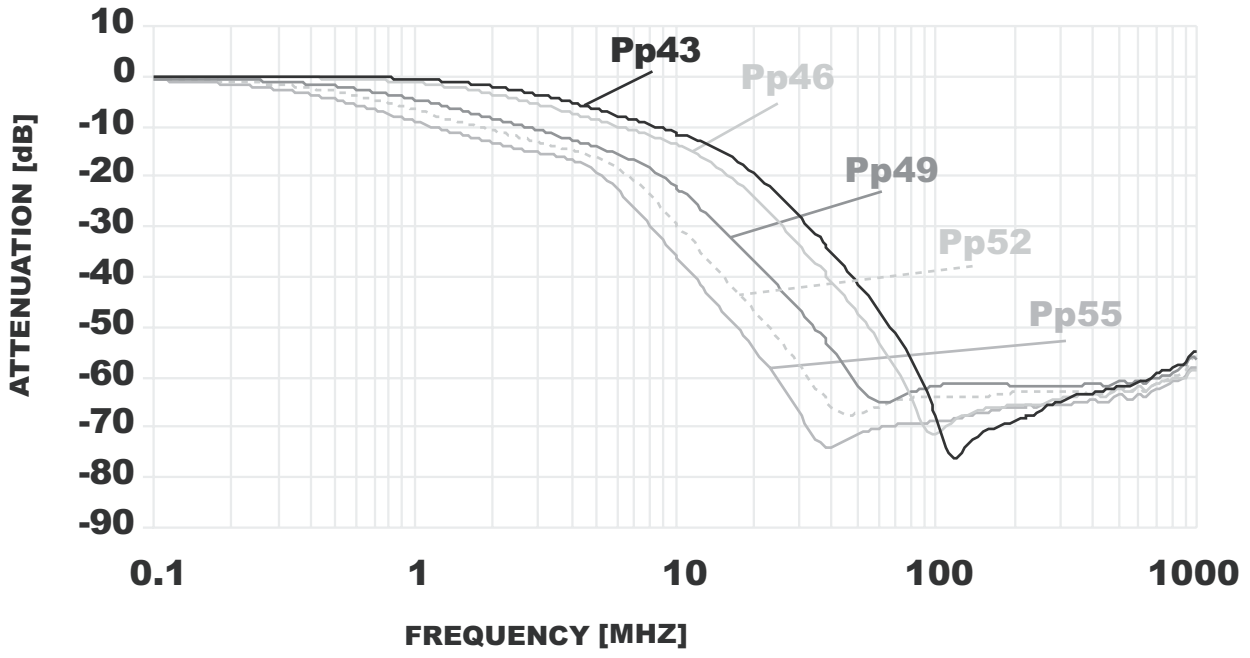
Minimum Attenuation

Filter Code	Typical Cap. [nF] (2)	f_{co} [Mhz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Pp43	3	2.5	0	4	7	23	35	58	57	54	47
Pp46	4.4	1.74	0	6	10	30	44	55	58	55	52
Pp49	9.4	0.677	2	11	18	43	57	55	56	55	49
Pp52	13.6	0.470	4	14	25	54	62	57	57	56	48
Pp55	20	0.325	6	16	32	62	66	60	58	57	49

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

π Filter

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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π Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

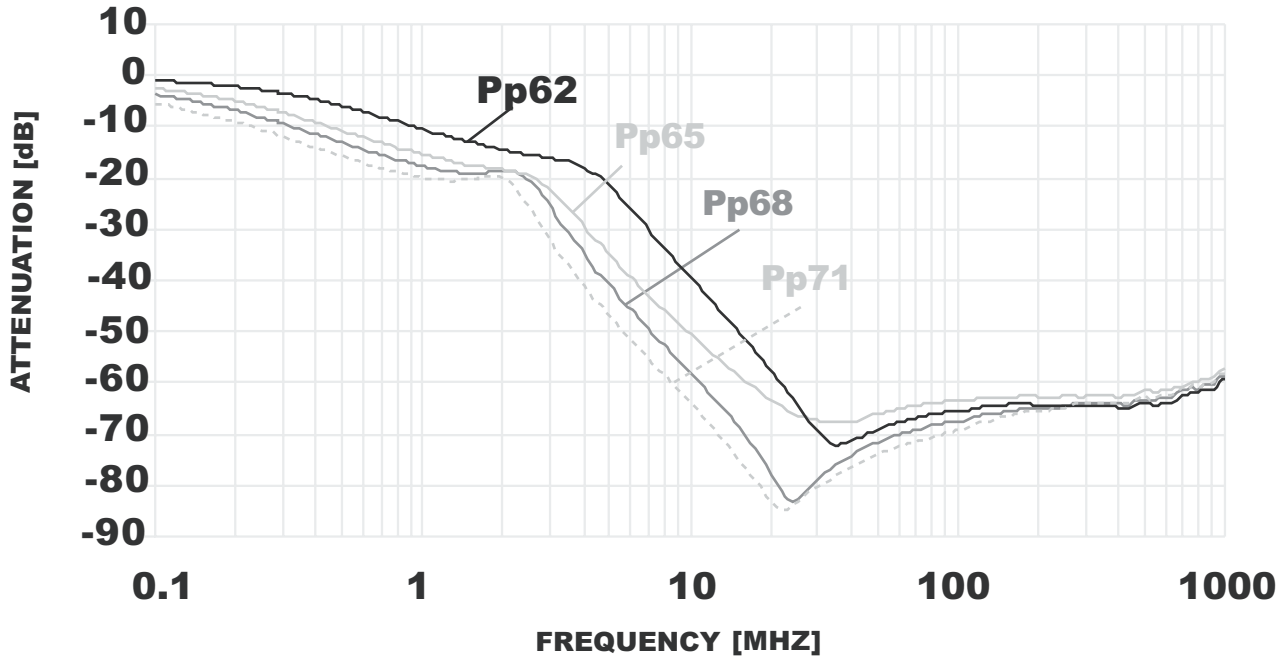
Typical cut-off frequency (-3dB) $f_{co} \geq$ 30KHz.

Minimum Attenuation

Filter Code	Typical Cap. [nF] (2)	f_{co} [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)								
			1	5	10	30	50	100	300	500	1000
Pp62	24	265	8	19	36	63	64	59	59	58	54
Pp65	44	118	13	31	45	59	60	57	57	56	52
Pp68	66	99	15	38	54	73	68	62	58	57	53
Pp71	94	75	17	45	60	72	68	63	58	57	53

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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π Filter

Electrical Characteristics

Audio	LF	MF	HF	VHF	UHF
$f \leq$ 30KHz	30KHz $\leq f \leq$ 300KHz	300KHz $\leq f \leq$ 3MHz	3MHz $\leq f \leq$ 30MHz	30MHz $\leq f \leq$ 300MHz	300MHz $\leq f \leq$ 3GHz

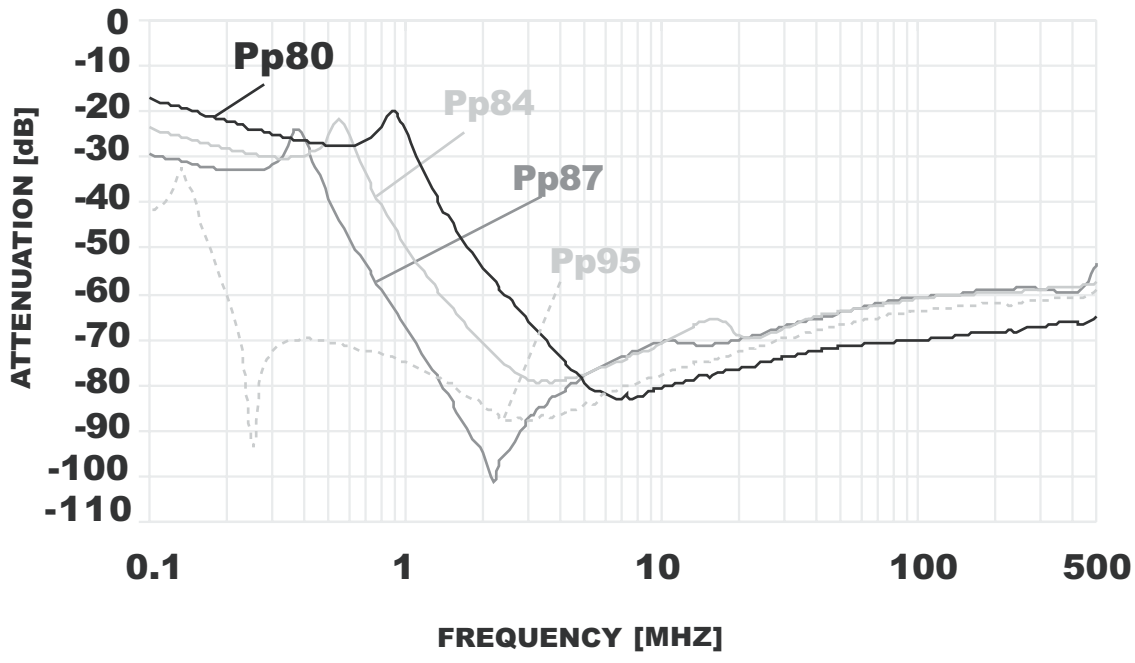
Typical cut-off frequency (-3dB) $f_{co} \leq$ 30KHz.

Minimum Attenuation

Filter Code	Typical Cap. [μF] (2)	f_{co} [Khz] Typical (3)	Min. Attenuation [dB] vs. Frequency [MHz] (1)							
			1	5	10	30	50	100	300	500
Pp80	0.44	12	22	76	76	68	65	60	59	58
Pp84	0.94	6.5	47	75	67	63	60	55	52	50
Pp87	2	3.2	62	73	65	61	58	53	52	49
Pp95	20	0.35	72	74	71	64	60	55	53	52

(1) Measured in 50Ω system according to MIL-STD-220, no load.
(2) Capacitance tolerance: ± 20%. For other capacitor values, contact the sales department.
(3) For estimation of the filter cut-off frequency in non-50Ω system, please refer to the design notes.

Typical measured filter attenuation



Note: All filter characteristics subject to change without prior notice.

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Transient Protection

0.1J Bidirectional Transient Protection

Transient Protection Code	Working Voltage [VDC]	Maximum Breakdown Voltage [V]	Clamping Voltage [V]	Maximum Leakage Current [A@VDC]	Transient Energy [J]	Maximum Capacitance [pF](1)
Za03	3.3	6.25	13.2	120	0.1	2175
Za05	5.6	10.63	19.8	42	0.1	1650
Za09	9.0	15.24	24.2	30	0.1	1125
Za14	14	21.64	35.2	22.5	0.1	900
Za18	18	28.75	46.2	12	0.1	525
Za26	26	39.67	66	12	0.1	233
Za30	30	47.15	73.7	12	0.1	188

(1) Measured at 0.5V RMS @ 1KHz

0.3J Bidirectional Transient Protection

Transient Protection Code	Working Voltage [VDC]	Maximum Breakdown Voltage [V]	Clamping Voltage [V]	Maximum Leakage Current [A@VDC]	Transient Energy [J]	Maximum Capacitance [pF](1)
Za03	3.3	6.25	13.2	120	0.3	7500
Za05	5.6	10.63	19.8	42	0.3	4500
Za14	14	21.64	35.2	22.5	0.3	1350
Za18	18	28.75	46.2	12	0.3	825
Za26	26	39.67	66	12	0.3	375

(1) Measured at 0.5V RMS @ 1KHz

Note: For higher energy transient protection, contact the sales department.

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Filter & Transient Protection Electrical Characteristics

C Filter Combined with 0.1J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	C Filter and 0.1J Bidirectional Transient Protection Code. Typical Capacitance [nF]						
	Transient Protection Code. Capacitance [nF] (2)						
	Za03 2.175	Za05 1.65	Za09 1.125	Za14 0.9	Za18 0.525	Za26 0.233	Za30 0.188
Cc08 0.047							
Cc12 0.1							
Cc18 0.12							
Cc23 0.18							
Cc33 0.33							
Cc36 0.47						Ya01 0.703	Ya02 0.658
Cc39 1						Ya03 1.233	Ya04 1.188
Cc42 2.2				Ya05 3.1	Ya06 2.725	Ya07 2.433	Ya08 2.388
Cc45 3.9		Ya9 5.55	Ya10 5.025	Ya11 4.8	Ya12 4.425	Ya13 4.133	Ya14 4.088
Cc54 4.7	Ya15 6.875	Ya16 6.35	Ya17 5.825	Ya18 5.6	Ya19 5.225	Ya20 4.933	Ya21 4.888
Cc58 6.8	Ya22 8.975	Ya23 8.45	Ya24 7.925	Ya25 7.7	Ya26 7.325	Ya27 7.033	Ya28 6.988
Cc62 10	Ya29 12.175	Ya30 11.65	Ya31 11.125	Ya32 10.9	Ya33 10.525	Ya34 10.233	Ya35 10.188
Cc66 15	Ya36 17.175	Ya37 16.65	Ya38 16.125	Ya39 15.9	Ya40 15.525	Ya41 15.233	Ya42 15.188
Cc72 33	Ya43 35.175	Ya44 34.65	Ya45 34.125	Ya46 33.9	Ya47 33.525	Ya48 33.233	Ya49 33.188
Cc74 47	Ya50 49.175	Ya51 48.65	Ya52 48.125	Ya53 47.9	Ya54 47.525	Ya55 47.233	Ya56 47.188
Cc76 100	Ya57 102.175	Ya58 101.65	Ya59 101.125	Ya60 100.9	Ya61 100.525	Ya62 100.233	Ya63 100.188
Cc78 220	Ya64 222.175	Ya65 221.65	Ya66 221.125	Ya67 220.9	Ya68 220.525	Ya69 220.233	Ya70 220.188

(1) Refer to the attenuation on pages 33-47.
(2) Refer to the characteristics on page 53.

Example:

Assuming that a Cc45 filter and a Za14 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the Cc45 row with the Za14 column. The combined code is Ya11. The typical capacitance of the combined filter is 4.8nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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Filter & Transient Protection Electrical Characteristics

C^2 Filter Combined with 0.1J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	C^2 Filter and 0.1 J Bidirectional Transient Protection Code. Typical Capacitance [nF]						
	Transient Protection Code. Capacitance [nF] (2)						
	Za03 2.175	Za05 1.65	Za09 1.125	Za14 0.9	Za18 0.525	Za26 0.233	Za30 0.188
Cs10 0.164							
Cs18 0.267							
Cs23 0.66						Yb01 0.893	Yb02 0.848
Cs27 0.94						Yb03 1.173	Yb04 1.128
Cs32 2.4			Yb05 3.525	Yb06 3.3	Yb07 2.925	Yb08 2.633	Yb9 2.588
Cs35 3.6		Yb10 5.25	Yb11 4.725	Yb12 4.5	Yb13 4.125	Yb14 3.833	Yb15 3.788
Cs38 5.7	Yb16 7.875	Yb17 7.35	Yb18 6.825	Yb19 6.6	Yb20 6.225	Yb21 5.933	Yb22 5.888
Cs41 7.8	Yb23 9.975	Yb24 9.45	Yb25 8.925	Yb26 8.7	Yb27 8.325	Yb28 8.033	Yb29 7.988
Cs47 13.6	Yb30 15.775	Yb31 15.25	Yb32 14.725	Yb33 14.5	Yb34 14.125	Yb35 13.833	Yb36 13.788
Cs50 19.7	Yb37 21.875	Yb38 21.35	Yb39 20.825	Yb40 20.6	Yb41 20.225	Yb42 19.933	Yb43 19.888
Cs52 25	Yb44 27.175	Yb45 26.65	Yb47 26.125	Yb48 25.9	Yb49 25.525	Yb49 25.233	Yb50 25.188
Cs60 39.8	Yb51 41.975	Yb52 41.45	Yb53 40.925	Yb54 40.7	Yb55 40.325	Yb56 40.033	Yb57 39.988
Cs62 43	Yb58 45.175	Yb59 44.65	Yb60 44.125	Yb61 43.9	Yb62 43.525	Yb63 43.233	Yb64 43.188
Cs66 66	Yb65 68.175	Yb66 67.65	Yb67 67.125	Yb68 66.9	Yb69 66.525	Yb70 66.233	Yb71 66.188
Cs70 94	Yb72 96.175	Yb73 95.65	Yb74 95.125	Yb75 94.9	Yb76 94.525	Yb77 94.233	Yb78 94.188

(1) Refer to the attenuation on pages 38-42.

(2) Refer to the characteristics on page 53.

Example:

Assuming that a Cc38 filter and a Za14 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the Cc38 row with the Za14 column. The combined code is Yb19. The typical capacitance of the combined filter is 6.6nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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Filter & Transient Protection Electrical Characteristics

L &J Filter Combined with 0.1J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	L &J Filter and 0.1 J Bidirectional Transient Protection Code. Typical Capacitance [nF] (*)						
	Transient Protection Code. Capacitance [nF] (2)						
	Za03 2.175	Za05 1.65	Za09 1.125	Za14 0.9	Za18 0.525	Za26 0.233	Za30 0.188
LI10 0.082							
LI15 0.12							
LI24 0.22							
LI28 0.47						Yc01 0.703	Yc02 0.658
LI32 1						Yc03 1.233	Yc04 1.188
LI36 1.8				Yc05 2.7	Yc06 2.325	Yc07 2.033	Yc08 1.988
LI43 4.7	Yc09 6.875	Yc10 6.35	Yc11 5.825	Yc12 5.6	Yc13 5.225	Yc14 4.933	Yc15 4.888
LI46 6.8	Yc16 8.975	Yc17 8.45	Yc18 7.925	Yc19 7.7	Yc20 7.325	Yc21 7.033	Yc22 6.988
LI49 10	Yc23 12.175	Yc24 11.65	Yc25 11.125	Yc26 10.9	Yc27 10.525	Yc28 10.233	Yc29 10.188
LI52 15	Yc30 17.175	Yc31 16.65	Yc32 16.125	Yc33 15.9	Yc34 15.525	Yc35 15.233	Yc36 15.188
LI63 22	Yc37 24.175	Yc38 23.65	Yc39 23.125	Yc40 22.9	Yc41 22.525	Yc42 22.233	Yc43 22.188
LI66 33	Yc44 35.175	Yc45 34.65	Yc46 34.125	Yc47 33.9	Yc48 33.525	Yc49 33.233	Yc50 33.188
LI73 180	Yc51 182.175	Yc52 181.65	Yc53 181.125	Yc54 180.9	Yc55 180.525	Yc56 180.233	Yc57 180.188
LI75 220	Yc58 222.175	Yc59 221.65	Yc60 221.125	Yc61 220.9	Yc62 220.525	Yc63 220.233	Yc64 220.188

(*) - For J filter replace YC with YD

(1) Refer to the attenuation on pages 43-47.
(2) Refer to the characteristics on page 53.

Example:

Assuming that a LI46 filter and a Za14 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the LL46 row with the Za14 column. The combined code is Yc19. The typical capacitance of the combined filter is 7.7nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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Filter & Transient Protection Electrical Characteristics

π Filter Combined with 0.1J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	π Filter and 0.1 J Bidirectional Transient Protection Code. Typical Capacitance [nF]						
	Transient Protection Code. Capacitance [nF] (2)						
	Za03 2.175	Za05 1.65	Za09 1.125	Za14 0.9	Za18 0.525	Za26 0.233	Za30 0.188
Pp10 0.094							
Pp15 0.164							
Pp24 0.24							
Pp28 0.44							Ye01 0.628
Pp32 0.94						Ye02 1.173	Ye03 1.128
Pp36 2				Ye04 2.9	Ye05 2.525	Ye06 2.233	Ye07 2.188
Pp43 3			Ye08 4.125	Ye09 3.9	Ye10 3.525	Ye11 3.233	Ye12 3.188
Pp46 4.4	Ye13 6.575	Ye14 6.05	Ye15 5.525	Ye16 5.3	Ye17 4.925	Ye18 4.633	Ye19 4.588
Pp49 9.4	Ye20 11.575	Ye21 11.05	Ye22 10.525	Ye23 10.3	Ye24 9.925	Ye25 9.633	Ye26 9.588
Pp52 13.6	Ye27 15.775	Ye28 15.25	Ye29 14.725	Ye30 14.5	Ye31 14.125	Ye32 13.833	Ye33 13.788
Pp55 20	Ye34 22.175	Ye35 21.65	Ye36 21.125	Ye37 20.9	Ye38 20.525	Ye39 20.233	Ye40 20.188
Pp62 24	Ye41 26.175	Ye42 25.65	Ye43 25.125	Ye44 24.9	Ye45 24.525	Ye46 24.233	Ye47 24.188
Pp65 44	Ye48 46.175	Ye49 45.65	Ye50 45.125	Ye51 44.9	Ye52 44.525	Ye53 44.233	Ye54 44.188
Pp68 66	Ye55 68.175	Ye56 67.65	Ye57 67.125	Ye58 66.9	Ye59 66.525	Ye60 66.233	Ye61 66.188
Pp71 94	Ye62 96.175	Ye63 95.65	Ye64 95.125	Ye65 94.9	Ye66 94.525	Ye67 94.233	Ye68 94.188
Pp80 440	Ye69 442.175	Ye70 441.65	Ye71 441.125	Ye72 440.9	Ye73 440.525	Ye74 440.233	Ye75 440.188

(1) Refer to the attenuation on pages 48-52.
(2) Refer to the characteristics on page 53.

Example:

Assuming that a PP46 filter and a ZA14 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the PP46 row with the Za14 column. The combined code is Ye16. The typical capacitance of the combined filter is 5.3nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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Filter & Transient Protection Electrical Characteristics

C Filter Combined with 0.3J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	C Filter and 0.3 J Bidirectional Transient Protection Code. Typical Capacitance [nF]				
	Transient Protection Code. Capacitance [nF] (2)				
	Zc03 7.5	Zc05 4.5	Zc14 1.35	Zc18 0.825	Zc26 0.375
Cc08 0.047					
Cc12 0.1					
Cc18 0.12					
Cc23 0.18					
Cc33 0.33					
Cc36 0.47					
Cc39 1					Yf01 1.375
Cc42 2.2				Yf02 3.025	Yf03 2.575
Cc45 3.9			Yf04 5.25	Yf05 4.725	Yf06 4.275
Cc54 4.7			Yf07 6.06	Yf08 5.525	Yf09 5.075
Cc58 6.8			Yf10 8.15	Yf11 7.625	Yf12 7.175
Cc62 10		Yf13 14.5	Yf14 11.35	Yf15 10.825	Yf16 10.375
Cc66 15	Yf17 22.5	Yf18 19.5	Yf19 16.35	Yf20 15.825	Yf21 15.375
Cc72 33	Yf22 40.5	Yf23 37.5	Yf24 34.35	Yf25 33.825	Yf26 33.375
Cc74 47	Yf27 54.5	Yf28 51.5	Yf29 48.35	Yf30 47.825	Yf31 47.375
Cc76 100	Yf32 107.5	Yf33 104.5	Yf34 101.35	Yf35 100.825	Yf36 100.375
Cc78 220	Yf37 227.5	Yf38 224.5	Yf39 221.35	Yf40 220.825	Yf41 220.375

(1) Refer to the attenuation on pages 33-37.
(2) Refer to the characteristics on page 53.

Example:

Assuming that a CC72 filter and a ZC18 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the CC72 row with the ZC18 column. The combined code is Yf25. The typical capacitance of the combined filter is 33.825nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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Filter & Transient Protection Electrical Characteristics

C²Filter Combined with 0.3J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	C² Filter and 0.3J Bidirectional Transient Protection Code. Typical Capacitance [nF]				
	Transient Protection Code. Capacitance [nF] (2)				
	Zc03 7.5	Zc05 4.5	Zc14 1.35	Zc18 0.825	Zc26 0.375
Cs10 0.164					
Cs18 0.267					
Cs23 0.66					
Cs27 0.94					Yg01 1.315
Cs32 2.4				Yg02 3.225	Yg03 2.775
Cs35 3.6			Yg04 4.95	Yg05 4.425	Yg06 3.975
Cs38 5.7			Yg07 7.05	Yg08 6.525	Yg09 6.075
Cs41 7.8			Yg10 9.15	Yg11 8.625	Yg12 8.175
Cs47 13.6		Yg13 18.1	Yg14 14.95	Yg15 14.425	Yg16 13.975
Cs50 19.7	Yg17 27.2	Yg18 24.2	Yg19 21.05	Yg20 20.525	Yg21 20.075
Cs52 25	Yg22 32.5	Yg23 29.5	Yg24 26.35	Yg25 25.825	Yg26 25.375
Cs60 39.8	Yg27 47.3	Yg28 44.3	Yg29 41.15	Yg30 40.625	Yg31 40.175
Cs62 43	Yg32 50.5	Yg33 47.5	Yg34 44.35	Yg35 43.825	Yg36 43.375
Cs66 66	Yg37 73.5	Yg38 70.5	Yg39 67.35	Yg40 66.825	Yg41 66.375
Cs70 94	Yg42 101.5	Yg43 98.5	Yg44 95.35	Yg45 94.825	Yg46 94.375

(1) Refer to the attenuation on pages 38-42.
(2) Refer to the characteristics on page 53.

Example:

Assuming that a Cs62 filter and a ZC18 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the Cs62 row with the ZC18 column. The combined code is Yg35. The typical capacitance of the combined filter is 43.825nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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Filter & Transient Protection Electrical Characteristics

L & J Filter Combined with 0.3J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	L & J Filter and 0.3J Bidirectional Transient Protection Code. Typical Capacitance [nF] (*)				
	Transient Protection Code. Capacitance [nF] (2)				
	Zc03 7.5	Zc05 4.5	Zc14 1.35	Zc18 0.825	Zc26 0.375
LI10 0.082					
LI15 0.12					
LI24 0.22					
LI28 0.47					
LI32 1					Yh01 1.375
LI36 1.8				Yh02 2.625	Yh03 2.175
LI43 4.7			Yh04 6.05	Yh05 5.525	Yh06 5.075
LI46 6.8			Yh07 8.15	Yh08 7.625	Yh09 7.175
LI49 10		Yh10 14.5	Yh11 11.35	Yh12 10.825	Yh13 10.375
LI52 15	Yh14 22.5	Yh15 19.5	Yh16 16.35	Yh17 15.825	Yh18 15.375
LI63 22	Yh19 29.5	Yh20 26.5	Yh21 23.35	Yh22 22.825	Yh23 22.375
LI66 33	Yh24 40.5	Yh25 37.5	Yh26 34.35	Yh27 33.825	Yh28 33.375
LI73 180	Yh29 187.5	Yh30 184.5	Yh31 181.35	Yh32 180.825	Yh33 180.375
LI75 220	Yh34 227.5	Yh35 224.5	Yh36 221.35	Yh37 220.825	Yh38 220.375

(*) - For J filter, replace YH with YJ

(1) Refer to the attenuation on pages 43-47.
(2) Refer to the characteristics on page 53.

Example:

Assuming that a LI63 filter and a Zc18 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the LL63 row with the ZC18 column. The combined code is Yh22. The typical capacitance of the combined filter is 22.825nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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Filter & Transient Protection Electrical Characteristics

π Filter Combined with 0.3J Bidirectional Transient Protection

Filter Code Cap. [nF] (1)	π Filter and 0.3J Bidirectional Transient Protection Code. Typical Capacitance [nF]				
	Transient Protection Code. Capacitance [nF] (2)				
	Zc03 7.5	Zc05 4.5	Zc14 1.35	Zc18 0.825	Zc26 0.375
Pp10 0.094					
Pp15 0.164					
Pp24 0.24					
Pp28 0.44					
Pp32 0.94					Yj01 1.315
Pp36 2				Yj02 2.825	Yj03 2.375
Pp43 3			Yj04 4.35	Yj05 3.825	Yj06 3.375
Pp46 4.4			Yj07 5.75	Yj08 5.225	Yj09 4.775
Pp49 9.4		Yj10 13.9	Yj11 10.75	Yj12 10.225	Yj13 9.775
Pp52 13.6		Yj14 18.1	Yj15 14.95	Yj16 14.425	Yj17 13.975
Pp55 20	Yj18 27.5	Yj19 24.5	Yj20 21.35	Yj21 20.825	Yj22 20.375
Pp62 24	Yj23 31.5	Yj24 28.5	Yj25 25.35	Yj26 24.825	Yj27 24.375
Pp65 44	Yj28 51.5	Yj29 48.5	Yj30 45.35	Yj31 44.825	Yj32 44.375
Pp68 66	Yj33 73.5	Yj34 70.5	Yj35 67.35	Yj36 66.825	Yj37 66.375
Pp71 94	Yj38 101.5	Yj39 98.5	Yj40 95.35	Yj41 94.825	Yj42 94.375
Pp80 440	Yj43 447.5	Yj44 444.5	Yj45 441.35	Yj46 440.825	Yj47 440.375

(1) Refer to the attenuation on pages 48-52.
(2) Refer to the characteristics on page 53.

Example:

Assuming that a Pp62 filter and a ZC18 transient protection are selected for all the connector contacts, the combined code can be extracted by finding the intersection of the PP62 row with the ZC18 column. The combined code is Yj26. The typical capacitance of the combined filter is 24.825nF.

Refer to the design notes (page 71) for estimation of the cut-off frequency(f_{co}) of the combined filter. If the estimated f_{co} is too low, select a filter with lower capacitance.

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