

Corcom Feedthrough Filters and Capacitors

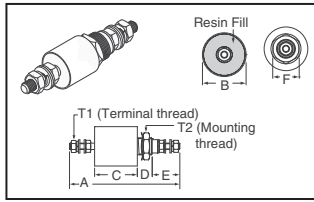
Filters – FFD and FFA Series

All parts are UL and CSA approved.
The FFD and FFA series are designed to meet the very stringent safety requirements of EN132400 class Y4 and the class Y2

Specifications: • UL94V-0 Rated • Category Temperature Range: -40°C - 85°C • Insulation Resistance: For C<0.33µF, R>15000MΩ / For C>0.33µF, RC(MΩ)µF >5000s • MTBF: Typically >5 million hours

FFA Series (Class Y2): • Rated Voltage: 250 VDC 50/60 Hz maximum • Test Voltage (two seconds): 5000 VDC • Operating Ambient Temp. Range: 10 - 100 Amps: -40°C - 60°C; 200 Amps: -40°C - 50°C; 250 & 300 Amps: -40°C - 40°C • Pulse Test (EN132400): 2500V Peak

FFD Series (Class Y4): • Rated Voltage: 130VDC maximum • Test Voltage (two seconds): 2500VDC • Operating Ambient Temperature Range: -40°C - 60°C • Pulse Test (EN132400): 2500V Peak



Series	Filter ID	Frequency (MHz)							
		0.01	0.03	0.1	0.3	1	10	100	1000
FFA	CA	—	—	2	4	10	22	65	100
	DG	—	—	3	7	15	40	72	100
	GJ	—	—	5	12	21	60	90	100
	HF	—	—	2	10	18	27	60	100
	HN	2	4	10	17	24	75	90	100
FFD	NP	7	15	24	31	44	80	100	100
	PP	12	20	29	33	56	80	100	100
	CA	—	—	2	4	10	23	65	100
	HE	2	4	10	18	27	67	95	100
	PK	14	21	30	34	53	75	100	100

Series	Corcom Part No.	Dimensions - mm						T1 (Terminal Thread)		T2 (Mounting Thread)	
		A	B	C	D	E	F	Thread	Torque (In.-lbs.)	Thread	Torque (In.-lbs.)
FFA	32FFA6-CA	106	20	61	12	18	17	M4	11	M16 x 1	62
	16FFA6-DG	116	25	69	14	18	22	M4	11	M16 x 1	62
	10FFA6-GJ	140	20	99	12	16	17	M3	4	M12 x 1	35
	300FFA6-HF	200	54	93	19	46	40	M16	177	M32 x 1.5	212
	32FFA6-HN	148	25	101	14	18	22	M4	11	M16 x 1	62
FFD	200FFA6-NP	243	54	146	19	40	40	M10	70	M27 x 1.5	142
	100FFA6-PP	227	54	144	19	32	40	M8	44	M27 x 1.5	142
FFD	10FFD6-CA	90	20	49	12	16	17	M3	4	M12 x 1	35
	32FFD6-CA	98	20	53	12	18	17	M4	11	M12 x 1	35
	10FFD6-HE	130	20	89	12	16	17	M3	4	M12 x 1	35
	16FFD6-HE	139	20	94	12	18	17	M4	11	M12 x 1	35
	100FFD6-PK	228	38	145	19	32	27	M8	44	M24 x 1	124

Filter ID	Cap. (nF)	Rated Current (A)	Inductance (nH)	DC Resistance (MΩ) Max.	Digi-Key Part No.	Price Each			Corcom Part No.
						1	25	50	
FFA Series									
CA	2x10	32	70	4	CCM1830-ND	99.36	95.68	92.00	32FFA6-GA
DG	2x22	16	170	4	CCM1832-ND	98.05	94.42	90.79	16FFA6-DG
GJ	2x47	10	210	9	CCM1834-ND	93.31	89.86	86.40	10FFA6-GJ
HF	2x100	300	160	<1	CCM1831-ND	271.44	261.40	251.34	300FFA6-HF
HN	2x100	32	250	6	CCM1835-ND	127.25	122.54	117.83	32FFA6-HN
NP	2x470	200	330	<2	CCM1833-ND	219.74	211.60	203.46	200FFA6-NP
PP	2x1000	100	330	<2	CCM1836-ND	198.77	191.42	184.05	100FFA6-PP
FFD Series									
CA	2x10	10	70	6	CCM1815-ND	83.01	79.94	76.86	10FFD6-CA
CA	2x10	32	70	6	CCM1816-ND	94.62	91.12	87.61	32FFD6-CA
HE	2x100	10	140	8	CCM1817-ND	88.75	85.46	82.19	10FFD6-HE
HE	2x100	16	140	5	CCM1837-ND	96.67	93.09	89.52	16FFD6-HE
PK	2x1000	100	240	2	CCM1838-ND	189.30	182.30	175.29	100FFD6-PK

Capacitors – AFC and DFC Series

The AFC and DFC Series are designed to meet the very stringent safety requirements of EN132400 class Y2 and Y4

Specifications: • UL94V-0 Rated • Operating Ambient Temperature Range: 10 - 200 Amps: -40°C - 60°C; 250 & 300 Amps: -40°C - 40°C • Insulation Resistance: For C<0.33µF, R >15000MΩ / For C>0.33µF, RC(MΩ)µF >5000s • MTBF: Typically >10 million hours

AFC Series (Class Y2): • Rated Voltage: 250VAC maximum • Test Voltage (two seconds): 5000VDC • Pulse Test (EN132400): 5000V Peak

DFC Series (Class Y4): • Rated Voltage: 130VDC maximum • Test Voltage (two seconds): 2500VDC • Pulse Test (EN132400): 2500V Peak

Series	Cap. ID	Frequency (MHz)							
		0.01	0.03	0.1	0.3	1	10	100	1000
AFC	A	—	—	—	—	—	8	38	45
	B	—	—	—	—	—	14	43	60
	C	—	—	—	—	3	21	45	70
	F	—	—	—	—	4	12	30	48
	G	—	—	—	—	2	6	15	34
DFC	H	—	—	—	—	—	3	21	45
	N	6	9	16	22	30	33	33	90
	P	10	15	22	30	40	42	90	90
	C	—	—	—	—	—	3	21	45
	G	—	—	—	—	—	2	6	15
H	—	—	—	—	—	5	11	20	
N	6	9	15	22	33	33	33	90	
P	10	15	24	32	42	50	90	90	
Q	13	21	31	42	50	58	90	90	
R	18	26	36	45	52	70	90	90	

Series	Corcom Part No.	Dimensions - mm						T1 (Terminal Thread)		T2 (Mounting Thread)	
		A	B	C	D	E	F	Thread	Torque (In.-lbs.)	Thread	Torque (In.-lbs.)
AFC	10AFC6-A	57	15	18	10	16	13	M3	4	M10 X 1	27
	10AFC6-B	57	15	18	10	16	13	M3	4	M10 X 1	27
	16AFC6-B	63	20	18	12	18	17	M4	11	M12 X 1	35
	16AFC6-G	75	20	30	12	18	17	M4	11	M12 X 1	35
	16AFC6-H	77	25	30	14	18	22	M4	11	M16 X 1	62
	32AFC6-B	63	20	18	12	18	17	M4	11	M12 X 1	35
	32AFC6-C	63	20	18	12	18	17	M4	11	M12 X 1	35
	32AFC6-F	75	20	30	12	18	17	M4	11	M12 X 1	35
	32AFC6-H	77	25	30	14	18	22	M4	11	M16 X 1	62
	63AFC6-C	96	25	30	14	26	22	M6	22	M16 X 1	62
	100AFC6-G	113	32	33	16	32	27	M8	44	M20 X 1	89
	200AFC6-H	130	38	33	19	40	27	M10	71	M24 X 1	124
	250AFC6-P	160	54	54	19	46	40	M12	97	M32 X 1.5	212
	300AFC6-N	160	54	54	19	46	40	M16	177	M32 X 1.5	212

Series	Corcom Part No.	Dimensions - mm						T1 (Terminal Thread)		T2 (Mounting Thread)	
		A	B	C	D	E	F	Thread	Torque (In.-lbs.)	Thread	Torque (In.-lbs.)
DFC	10DFC6-C	57	15	18	10	16	13	M3	4	M10 X 1	27
	16DFC6-C	63	20	18	12	18	17	M4	11	M12 X 1	35
	16DFC6-G	75	20	30	12	18	17	M4	11	M12 X 1	35
	16DFC6-H	75	20	30	12	18	17	M4	11	M12 X 1	35
	16DFC6-N	82	32	33	16	18	27	M4	11	M20 X 1	89
	32DFC6-C	63	20	18	12	18	17	M4	11	M12 X 1	35
	32DFC6-G	75	20	30	12	18	17	M4	11	M12 X 1	35
	32DFC6-N	82	32	33	16	18	27	M4	11	M20 X 1	89
	63DFC6-G	96	25	30	14	26	22	M6	22	M16 X 1	62
	100DFC6-H	113	32	33	16	32	27	M8	44	M20 X 1	89
	100DFC6-P	133	38	50	19	32	27	M8	44	M24 X 1	124
	200DFC6-R	165	54	68	19	40	40	M10	71	M27 X 1.5	142
	300DFC6-Q	160	54	54	19	46	40	M16	177	M32 X 1.5	212

Cap. ID	Cap. (nF)	Rated Current (A)	Max. Leakage Current (mA)	Digi-Key Part No.	Price Each			Corcom Part No.
					1	25	50	
AFC Series								
A	2.2	10	0.21	CCM1796-ND	50.46	48.59	46.73	10AFC6-A
B	4.7	16	0.44	CCM1797-ND	50.52	48.65	46.78	10AFC6-B
				CCM1798-ND	46.40	44.68	42.96	16AFC6-B
				CCM1801-ND	47.16	45.41	43.66	32AFC6-B
C	10	32	0.94	CCM1802-ND	47.90	46.12	44.35	32AFC6-C
				CCM1794-ND	53.64	51.65	49.67	63AFC6-C
F	33	32	3.1	CCM1844-ND	49.83	47.98	46.14	32AFC6-F
G	47	16	4.4	CCM1799-ND	49.09	47.27	45.45	16AFC6-G
				CCM1795-ND	76.65	73.81	70.93	100AFC6-G
H	100	16	9.4	CCM1800-ND	52.95	50.99	49.03	16AFC6-H
				CCM1793-ND	54.39	52.38	50.36	32AFC6-H
				CCM1803-ND	84.15	81.04	77.91	200AFC6-H
N	470	300	44	CCM1840-ND	236.30	227.56	218.80	300AFC6-N
P	1000	250	94	CCM1839-ND	225.48	217.13	208.78	250AFC6-P

Series	Cap. ID	Cap. (nF)	Rated Current (A)	Inductance (nH)	DC Resistance (MΩ) Max.	Digi-Key Part No.	Price Each			Corcom Part No.
							1	25	50	
DFC Series										
C	10	16	10	—	—	CCM1807-ND	56.26	54.18	52.10	10DFC6-C
						CCM1808-ND	46.59	44.86	43.14	16DFC6-C
						CCM1812-ND	47.34	45.59	43.84	32DFC6-C
G	47	32	—	—	—	CCM1809-ND	48.40	46.61	44.81	16DFC6-G
						CCM1813-ND	49.52	47.68	45.85	32DFC6-G
						CCM1804-ND	57.63	55.50	53.36	63DFC6-G
H	100	16	—	—	—	CCM1810-ND	48.96	47.15	45.34	16DFC6-H
						CCM1805-ND	80.53	77.55	74.57	100DFC6-H
N	470	16	—	—	—	CCM1811-ND	65.75	63.31	60.88	16DFC6-N
						CCM1814-ND	66.61	64.14	61.68	32DFC6-N
P	1000	100	—	—	—	CCM				