

**tyco**

Electronics

**Introducing...**



RoHS  
Ready 

# CORCOM Feedthrough Filters and Capacitors

AFC, DFC, FFA and FFD Series

## FILTERS



**FFA Series** .....4-5  
AC Feedthrough Filters - Class Y2  
10 to 300 amps

**FFD Series** .....6-7  
DC Feedthrough Filters - Class Y4  
10 to 200 amps



## CAPACITORS



**AFC Series** .....8-9  
AC Feedthrough Capacitors - Class Y2  
10 to 300 amps

**DFC Series** .....10-11  
DC Feedthrough Capacitors - Class Y4  
10 to 300 amps



# CORCOM Feedthrough Filters and Capacitors

## APPLICATIONS

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- Offers reliability and performance in high frequency applications such as:
  - Servers
  - Base Stations
  - Routers
  - Main Power Supplies
  - Telecom Systems / Racks
  - MRI Rooms
  - High Power Microwave Lines
  - Military Vehicles and Equipment
  - High Current Switch Mode Power Supplies
  - Power Amplifier and Generators
  - Industrial Controls
  - Screened Rooms
  - High Frequency Welding Equipment
  - Secure Communications
  - Computer Facilities

## KEY FEATURES

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- Designed to meet EN132400 safety requirements
- Custom designs available where special packaging, mounting, terminations, or multiple lines are required
- RoHS compliant

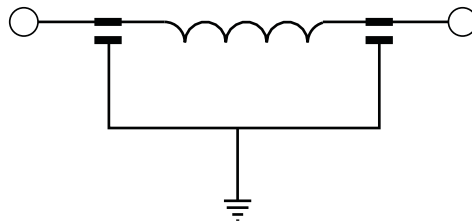
## STANDARDS & SPECS

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- UL Pending
- CSA Pending

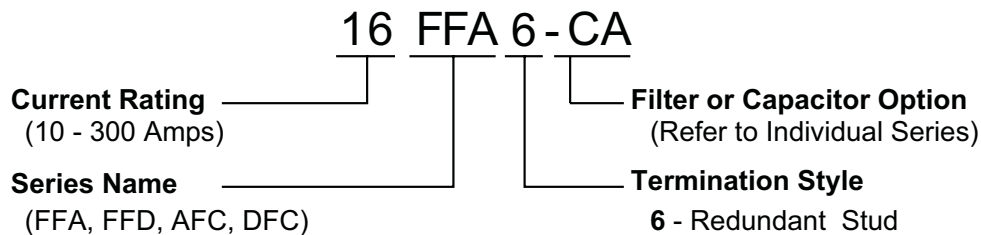
## SCHEMATIC (Filtered version only)

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## PART NUMBER SCHEMATIC (Example shown below)

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# FFA Series AC Feedthrough Filters - Class Y2

**UL**  
UL Pending  
CSA Pending

## DESCRIPTION

- The new FFA series features a range of AC feedthrough filters in current ratings from 10 to 300 amps. The FFA series is designed to meet the very stringent safety requirements of EN132400 class Y2 including the 5000V pulse test.

## FILTER OPTIONS / SPECIFICATIONS

Filter ID	Value (nF)	Inductance (nH)	Max. Leakage Current (mA)	DC Resistance (MΩ) Max.
BA	2 x 4.7	70	0.9	6
CA	2 x 10	70	1.9	4
CE	2 x 10	140	1.9	7
DG	2 x 22	170	4.2	4
DH	2 x 22	180	4.2	4
GB	2 x 47	80	8.9	3
GJ	2 x 47	210	8.9	9
HC	2 x 100	90	19	2
HD	2 x 100	120	19	1
HF	2 x 100	160	19	<1
HN	2 x 100	250	19	6
JK	2 x 150	240	29	3
NP	2 x 470	*330	89	<2
PP	2 x 1000	330	188	<2

\*240 for 100 Amp Version



## SPECIFICATIONS

<b>Rated Voltage (max):</b>	250 VAC 50/60 Hz
<b>Rated Current:</b>	10 to 300 amps
<b>Test Voltage (two seconds):</b>	5000 VDC
<b>Capacitor Class (EN132400):</b>	Designed to meet Y2
<b>Pulse Test (EN132400):</b>	5000V Peak
<b>Insulation Resistance (within 1 minute):</b>	For C <0.33μF, R> 15000MΩ For C>0.33μF, RC(MΩ*μF)>5000s
<b>Operating Ambient Temperature Range (@ rated current I<sub>r</sub>):</b>	10 to 100 Amps: -40°C to +60°C 200 Amps: -40°C to +50°C 250 & 300 Amps: -40°C to +40°C
<b>Category Temperature Range:</b>	-40°C to +85°C
<b>Climatic Category:</b>	40/85/21
<b>MTBF:</b>	Typically >5 million hours
<b>Insulating Materials Flammability Rating:</b>	UL 94V-0

**Typical insertion loss in dB:**  
Line-to-ground in 50 ohm circuit

Filter ID	Frequency - MHz							
	0.01	0.03	0.1	0.3	1	10	100	1000
BA	-	-	-	-	4	18	80	100
CA	-	-	2	4	10	22	65	100
CE	-	-	2	3	10	28	65	100
DG	-	-	3	7	15	40	72	100
DH	-	-	3	7	15	40	72	100
GB	-	-	6	11	21	50	85	100
GJ	-	-	5	12	21	60	90	100
HC	-	2	10	18	27	60	100	100
HD	-	2	10	18	27	60	100	100
HF	-	2	10	18	27	60	100	100
HN	2	4	10	17	24	75	90	100
JK	3	8	15	21	28	72	100	100
NP	7	15	24	31	44	80	100	100
PP	12	20	29	33	56	80	100	100

Current derating above ambient:

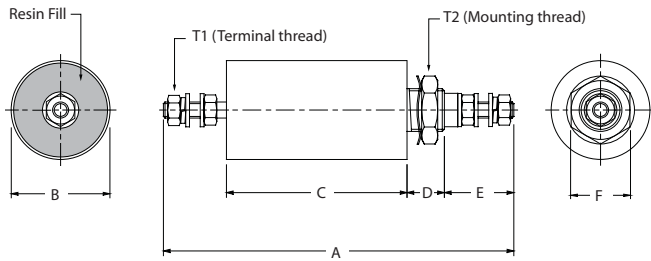
$$10-100 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/25}$$

$$200 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/35}$$

$$250 \text{ \& 300 Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/45}$$

# FFA Series AC Feedthrough Filters - Class Y2

## CASE STYLE



### T1 - Terminal Thread

Part Number(s)	Thread	Torque (in-lb.)
10FFA6-BA/CE/GJ	M3	4
16FFA6-CA/DG-HN	M4	11
32FFA6-CA/DH/HN		
63FFA6-GB/JK/NP	M6	22
100FFA6-HC/NP/PP	M8	44
200FFA6-HD/NP/PP	M10	70
250FFA6-HF/NP/PP	M12	97
300FFA6-HF/NP/PP	M16	177

### T2 - Mounting Thread

Part Number(s)	Thread	Torque (in-lb.)
10FFA6-BA/CE/GJ	M12 x 1	35
16FFA6-CA, 32FFA6-CA		
16FFA6-DG/HN	M16 x 1	62
32FFA6-DH/HN		
63FFA6-GB		
63FFA6-JK, 100FFA6-HC	M20 x 1	89
100FFA6-NP, 200FFA6-HD	M24 x 1	124
63FFA6-NP	M27 x 1.5	142
100FFA6-PP		
200FFA6-NP/PP		
250FFA6-HF/NP/PP	M32 x 1.5	212
300FFA6-HF/NP/PP		

## CASE DIMENSIONS

Part No.	A	B	C	D	E	F
	$\pm 0.04$ 1	$\pm 0.02$ 0.5	$\pm 0.08$ 2	$\pm 0.04$ 1	$\pm 0.08$ 2	
10FFA6-BA	3.86	0.79	2.24	0.47	0.63	0.67
	98	20	57	12	16	17
16FFA6-CA	4.17	0.79	2.40	0.47	0.71	0.67
32FFA6-CA	106	20	61	12	18	17
63FFA6-GB	6.30	0.98	3.70	0.55	1.02	0.87
	160	25	94	14	26	22
100FFA6-HC	7.24	1.26	4.09	0.63	1.26	1.06
	184	32	104	16	32	27
200FFA6-HD	8.23	1.50	4.41	0.75	1.57	1.06
	209	38	112	19	40	27
250FFA6-HF	7.87	2.13	3.66	0.75	1.81	1.57
300FFA6-HF	200	54	93	19	46	40
10FFA6-CE	4.21	0.79	2.60	0.47	0.63	0.67
	107	20	66	12	16	17
16FFA6-DG	4.57	0.98	2.72	0.55	0.71	0.87
32FFA6-DH	116	25	69	14	18	22
63FFA6-JK	6.81	1.26	4.13	0.63	1.02	1.06
	173	32	105	16	26	27
100FFA6-NP	8.98	1.50	5.71	0.75	1.26	1.06
	228	38	145	19	32	27
200FFA6-NP	9.57	2.13	5.75	0.75	1.57	1.57
	243	54	146	19	40	40
250FFA6-NP	10.51	2.13	6.30	0.75	1.81	1.57
300FFA6-NP	267	54	160	19	46	40
10FFA6-GJ	5.51	0.79	3.90	0.47	0.63	0.67
	140	20	99	12	16	17
16FFA6-HN	5.83	0.98	3.98	0.55	0.71	0.87
32FFA6-HN	148	25	101	14	18	22
63FFA6-NP	7.44	2.13	4.65	0.75	1.02	1.57
	189	54	118	19	26	40
100FFA6-PP	8.94	2.13	5.67	0.75	1.26	1.57
	227	54	144	19	32	40
200FFA6-PP	9.57	2.13	5.75	0.75	1.57	1.57
	243	54	146	19	40	40
250FFA6-PP	10.51	2.13	6.30	0.75	1.81	1.57
300FFA6-PP	267	54	160	19	46	40

## PART NUMBERS

Standard Performance	High Performance	Extended Performance
10FFA6-BA	10FFA6-CE	10FFA6-GJ
16FFA6-CA	16FFA6-DG	16FFA6-HN
32FFA6-CA	32FFA6-DH	32FFA6-HN
63FFA6-GB	63FFA6-JK	63FFA6-NP
100FFA6-HC	100FFA6-NP	100FFA6-PP
200FFA6-HD	200FFA6-NP	200FFA6-PP
250FFA6-HF	250FFA6-NP	250FFA6-PP
300FFA6-HF	300FFA6-NP	300FFA6-PP

# FFD Series DC Feedthrough Filters - Class Y4

**UL**  
UL Pending  
CSA Pending

## DESCRIPTION

- The new FFD series features a range of DC feedthrough filters in current ratings from 10 to 200 amps. The FFD series is designed to meet the very stringent safety requirements of EN132400 class Y4 including the 2500V pulse test.

## FILTER OPTIONS / SPECIFICATIONS

Filter ID	Value (nF)	Inductance (nH)	DC Resistance (MΩ) Max.
CA	2 x 10	70	6
HB	2 x 100	80	3
HE	2 x 100	140	5
NC	2 x 40	90	2
ND	2 x 470	120	1
NH	2 x 470	180	3
PK	2 x 1000	240	2
RP	2 x 4700	330	2



## SPECIFICATIONS

<b>Rated Voltage (max):</b>	130 VDC
<b>Rated Current:</b>	10 to 200 amps
<b>Test Voltage (two seconds):</b>	2500 VDC
<b>Capacitor Class (EN132400):</b>	Designed to meet Y4
<b>Pulse Test (EN132400):</b>	2500V Peak
<b>Insulation Resistance (within 1 minute):</b>	For C < 0.33μF, R > 15000MΩ For C > 0.33μF, RC (MΩ*μF) > 5000s
<b>Operating Ambient Temperature Range (@ rated current I<sub>r</sub>):</b>	10 to 100 Amps: -40°C to +60°C 200 Amps: -40°C to +50°C
<b>Category Temperature Range:</b>	-40°C to +85°C
<b>Climatic Category:</b>	40/85/21
<b>MTBF:</b>	Typically >5 million hours
<b>Insulating Materials Flammability Rating:</b>	UL 94V-0

**Typical insertion loss in dB:**  
Line-to-ground in 50 ohm circuit

Filter ID	Frequency - MHz							
	0.01	0.03	0.1	0.3	1	10	100	1000
CA	-	-	2	4	10	23	65	100
HB	2	4	10	18	27	62	95	100
HE	2	4	10	18	27	67	95	100
NC	7	14	23	30	32	70	100	100
ND	7	14	23	30	32	70	100	100
NH	7	14	23	31	35	75	100	100
PK	14	21	30	34	53	75	100	100
RP	20	32	40	52	85	100	100	100

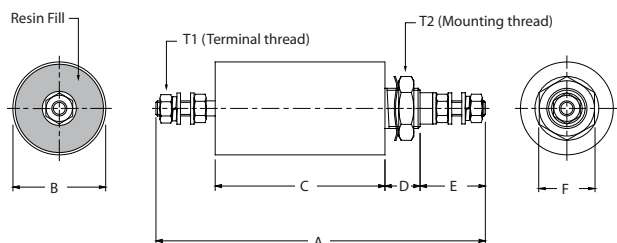
*Current derating above ambient:*

$$10\text{-}100 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/25}$$

$$200 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/35}$$

# FFD Series DC Feedthrough Filters - Class Y4

## CASE STYLE



### T1 - Terminal Thread

Part Number(s)	Thread	Torque (in-lb.)
10FFD6-CA	M3	4
16FFD6-CA/HE	M4	11
32FFD6-CA/HE		
63FFD6-HB/NH	M6	22
100FFD6-NC/PK	M8	44
200FFD6-ND/RP	M10	70

### T2 - Mounting Thread

Part Number(s)	Thread	Torque (in-lb.)
10FFD6-CA/HE	M12 x 1	35
16FFD6-CA/HE		
32FFD6-CA/HE		
63FFD6-HB/NH	M20 x 1	89
100FFD6-NC/PK	M24 x 1	124
200FFD6-ND/RP	M27 x 1.5	142

## CASE DIMENSIONS

Part No.	A	B	C	D	E	F
	$\pm 0.04$ 1	$\pm 0.02$ 0.5	$\pm 0.08$ 2	$\pm 0.04$ 1	$\pm 0.08$ 2	
10FFD6-CA	3.54 90	0.79 20	1.93 49	0.47 12	0.63 16	0.67 17
16FFD6-CA	3.86	0.79	2.09	0.47	0.71	0.67
32FFD6-CA	98	20	53	12	18	17
63FFD6-HB	6.30 160	0.98 25	3.70 94	0.55 14	1.02 26	0.87 22
100FFD6-NC	7.24 184	1.26 32	4.09 104	0.63 16	1.26 32	1.06 27
200FFD6-ND	8.23 209	1.50 38	4.41 112	0.75 19	1.57 40	1.06 27
10FFD6-HE	5.12 130	0.79 20	3.50 89	0.47 12	0.63 16	0.67 17
16FFD6-HE	5.47	0.79	3.70	0.47	0.71	0.67
32FFD6-HE	139	20	94	12	18	17
63FFD6-NH	6.81 173	1.26 32	4.13 105	0.63 16	1.02 26	1.06 27
100FFD6-PK	8.98 228	1.50 38	5.71 145	0.75 19	1.26 32	1.06 27
200FFD6-RP	10.98 279	2.13 54	7.17 182	0.75 19	1.57 40	1.57 40

## PART NUMBERS

Standard Performance	High Performance
10FFD6-CA	10FFD6-HE
16FFD6-CA	16FFD6-HE
32FFD6-CA	32FFD6-HE
63FFD6-HB	63FFD6-NH
100FFD6-NC	100FFD6-PK
200FFD6-ND	200FFD6-RP

# AFC Series AC Feedthrough Capacitors - Class Y2

**UL**  
UL Pending  
CSA Pending

## DESCRIPTION

- The new AFC series features a range of AC feedthrough capacitors in current ratings from 10 to 300 amps. The AFC series is designed to meet the very stringent safety requirements of EN132400 class Y2 including the 5000V pulse test.

## CAPACITOR OPTIONS / SPECIFICATIONS

Capacitor ID	Value (nF±20%)	Maximum Leakage Current (mA)
A	2.2	0.21
B	4.7	0.44
C	10	0.94
F	33	3.1
G	47	4.4
H	100	9.4
K	220	21
N	470	44
P	1000	94



## SPECIFICATIONS

<b>Rated Voltage (max):</b>	250 VAC 50/60 Hz
<b>Rated Current:</b>	10 to 300 amps
<b>Test Voltage (two seconds):</b>	5000 VDC
<b>Capacitor Class (EN132400):</b>	Designed to meet Y2
<b>Pulse Test (EN132400):</b>	5000V Peak
<b>Insulation Resistance (within 1 minute):</b>	For C < 0.33µF, R > 15000MΩ For C > 0.33µF, RC (MΩ*µF) > 5000s
<b>Operating Ambient Temperature Range (@ rated current I<sub>r</sub>):</b>	10 to 200 Amps: -40°C to +60°C 250 & 300 Amps: -40°C to +40°C
<b>Category Temperature Range:</b>	-40°C to +85°C
<b>Climatic Category:</b>	40/85/21
<b>MTBF:</b>	Typically >10 million hours
<b>Insulating Materials Flammability Rating:</b>	UL 94V-0

**Typical insertion loss in dB:**  
Line-to-ground in 50 ohm circuit

Cap ID	Frequency - MHz							
	0.01	0.03	0.1	0.3	1	10	100	1000
A	-	-	-	-	-	8	38	45
B	-	-	-	-	-	14	43	60
C	-	-	-	-	3	21	45	70
F	-	-	-	4	12	30	48	90
G	-	-	2	6	15	34	50	90
H	-	2	5	11	20	40	65	90
K	-	4	11	18	27	45	85	90
N	6	9	16	22	33	33	90	90
P	10	15	22	30	40	42	90	90

Current derating above ambient:

$$10-100 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/45}$$

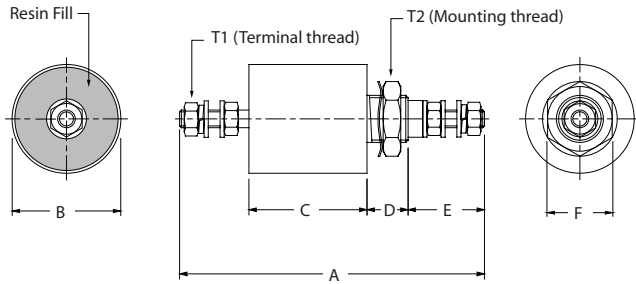
$$250 \text{ & } 300 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/45}$$



# AFC Series

## AC Feedthrough Capacitors - Class Y2

### CASE STYLE



#### T1 - Terminal Thread

Part Number(s)	Thread	Torque (in-lb.)
10AFC6-A, 10AFC6-B	M3	4
16AFC6-B, 16AFC6-C	M4	11
16AFC6-G, 16AFC6-H		
20AFC6-B, 32AFC6-B		
32AFC6-C, 32AFC6-F		
32AFC6-G, 32AFC6-H		
63AFC6-C, 63AFC6-G	M6	22
63AFC6-H		
100AFC6-G, 100AFC6-H	M8	44
100AFC6-K, 100AFC6-N		
200AFC6-H, 200AFC6-K	M10	71
200AFC6-N, 200AFC6-P		
250AFC6-H, 250AFC6-K	M12	97
250AFC6-N, 250AFC6-P		
300AFC6-H, 300AFC6-K	M16	177
300AFC6-N, 300AFC6-P		

#### T2 - Mounting Thread

Part Number(s)	Thread	Torque (in-lb.)
10AFC6-A, 10AFC6-B	M10 x 1	27
16AFC6-B, 16AFC6-C	M12 x 1	35
16AFC6-G, 20AFC6-B		
32AFC6-B, 32AFC6-C		
32AFC6-G, 32AFC6-F		
16AFC6-H, 32AFC6-H	M16 x 1	62
63AFC6-C, 63AFC6-G		
63AFC6-H		
100AFC6-G, 100AFC6-H	M20 x 1	89
100AFC6-K, 100AFC6-N	M24 x 1	124
200AFC6-H, 200AFC6-K		
200AFC6-N, 200AFC6-P	M27 x 1.5	142
250AFC6-H, 250AFC6-K	M32 x 1.5	212
250AFC6-N, 250AFC6-P		
300AFC6-H, 300AFC6-K		
300AFC6-N, 300AFC6-P		

### CASE DIMENSIONS

Part No.	A	B	C	D	E	F
	$\pm 0.04$ 1	$\pm 0.02$ 0.5	$\pm 0.04$ 1	$\pm 0.04$ 1	$\pm 0.08$ 2	
10AFC6-A	2.24	0.59	0.71	0.39	0.63	0.51
10AFC6-B	57	15	18	10	16	13
16AFC6-B	2.48	.79	0.71	0.47	0.71	0.67
16AFC6-C	63	20	18	12	18	17
16AFC6-G	2.95	0.79	1.18	0.47	0.71	0.67
	75	20	30	12	18	17
16AFC6-H	3.03	0.98	1.18	0.55	0.71	0.87
	77	25	30	14	18	22
20AFC6-B	2.48	0.79	0.71	0.47	0.71	0.67
	63	20	18	12	18	17
32AFC6-B	2.48	0.79	0.71	0.47	0.71	0.67
32AFC6-C	63	20	18	12	18	17
32AFC6-F	2.95	0.79	1.18	0.47	0.71	0.67
32AFC6-G	75	20	30	12	18	17
32AFC6-H	3.03	0.98	1.18	0.55	0.71	0.87
	77	25	30	14	18	22
63AFC6-C	3.78	0.98	1.18	0.55	1.02	0.87
63AFC6-G	96	25	30	14	26	22
63AFC6-H	3.78	0.98	1.18	0.55	1.02	0.87
	96	25	30	14	26	22
100AFC6-G	4.45	1.26	1.30	0.63	1.26	1.06
100AFC6-H	113	32	33	16	32	27
100AFC6-K	4.57	1.50	1.30	0.75	1.26	1.06
	116	38	33	19	32	27
100AFC6-N	5.24	1.50	1.97	0.75	1.26	1.06
	133	38	50	19	32	27
200AFC6-H	5.12	1.50	1.30	0.75	1.57	1.06
200AFC6-K	130	38	33	19	40	27
200AFC6-N	5.79	2.13	1.97	0.75	1.57	1.57
200AFC6-P	147	54	50	19	40	40
250AFC6-H	5.83	2.13	1.65	0.75	1.81	1.57
250AFC6-K	148	54	42	19	46	40
250AFC6-N	6.30	2.13	2.13	0.75	1.81	1.57
250AFC6-P	160	54	54	19	46	40
300AFC6-H	5.83	2.13	1.65	0.75	1.81	1.57
300AFC6-K	148	54	42	19	46	40
300AFC6-N	6.30	2.13	2.13	0.75	1.81	1.57
300AFC6-P	160	54	54	19	46	40

### PART NUMBERS

10AFC6-A	32AFC6-H	200AFC6-P
10AFC6-B	63AFC6-C	250AFC6-H
16AFC6-B	63AFC6-G	250AFC6-K
16AFC6-C	63AFC6-H	250AFC6-N
16AFC6-G	100AFC6-G	250AFC6-P
16AFC6-H	100AFC6-H	300AFC6-H
20AFC6-B	100AFC6-K	300AFC6-K
32AFC6-B	100AFC6-N	300AFC6-N
32AFC6-C	200AFC6-H	300AFC6-P
32AFC6-F	200AFC6-K	
32AFC6-G	200AFC6-N	

# DFC Series DC Feedthrough Capacitors - Class Y4

**UL**  
UL Pending  
CSA Pending

## DESCRIPTION

- The new DFC series features a range of DC feedthrough capacitors in current ratings from 10 to 300 amps. The AFC series is designed to meet the very stringent safety requirements of EN132400 class Y4 including the 2500V pulse test.

## CAPACITOR OPTIONS / SPECIFICATIONS

Capacitor ID	Value (nF±20%)
C	10
G	47
H	100
N	470
P	1000
Q	3300
R	4700
T	8000



## SPECIFICATIONS

<b>Rated Voltage (max):</b>	130 VDC
<b>Rated Current:</b>	10 to 300 amps
<b>Test Voltage (two seconds):</b>	2500 VDC
<b>Capacitor Class (EN132400):</b>	Designed to meet Y4
<b>Pulse Test (EN132400):</b>	2500V Peak
<b>Insulation Resistance (within 1 minute):</b>	For C <0.33µF, R> 15000MΩ For C>0.33µF, RC(MΩ*µF)>5000s
<b>Operating Ambient Temperature Range (@ rated current I<sub>r</sub>):</b>	10 to 200 Amps: -40°C to +60°C 250 & 300 Amps: -40°C to +40°C
<b>Category Temperature Range:</b>	-40°C to +85°C
<b>Climatic Category:</b>	40/85/21
<b>MTBF:</b>	Typically >10 million hours
<b>Insulating Materials Flammability Rating:</b>	UL 94V-0

**Typical insertion loss in dB:**  
Line-to-ground in 50 ohm circuit

Cap ID	Frequency - MHz							
	0.01	0.03	0.1	0.3	1	10	100	1000
C	-	-	-	-	3	21	45	70
G	-	-	2	6	15	34	50	90
H	-	2	5	11	20	40	65	90
N	6	9	15	22	33	33	90	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
T	22	31	41	52	62	82	90	90

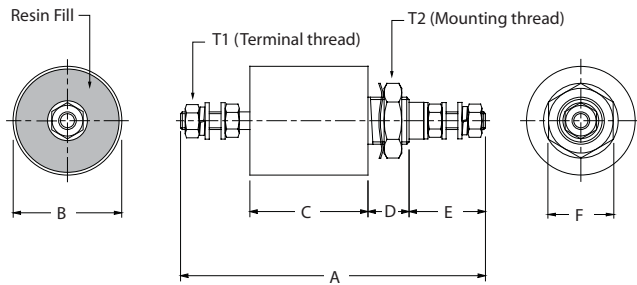
*Current derating above ambient:*

$$10\text{-}100 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/25}$$

$$250 \text{ \& } 300 \text{ Amp: For temperature, } \theta I_{\theta} = I_R \sqrt{(85-\theta)/45}$$

# DFC Series DC Feedthrough Capacitors - Class Y4

## CASE STYLE



### T1 - Terminal Thread

Part Number(s)	Thread	Torque (in-lb.)
10DFC6-C	M3	4
16DFC6-C, 16DFC6-G	M4	11
16DFC6-H, 16DFC6-N		
32DFC6-C, 32DFC6-G		
32DFC6-H, 32DFC6-N		
63DFC6-C, 63DFC6-G	M6	22
63DFC6-H, 63DFC6-N		
100DFC6-G, 100DFC6-H	M8	44
100DFC6-N, 100DFC6-P		
200DFC6-H, 200DFC6-N	M10	71
200DFC6-P, 200DFC6-R		
250DFC6-P, 250DFC6-Q	M12	97
250DFC6-T		
300DFC6-P, 300DFC6-Q	M16	177
300DFC6-T		

### T2 - Mounting Thread

Part Number(s)	Thread	Torque (in-lb.)
10DFC6-C	M10 x 1	27
16DFC6-C, 16DFC6-G	M12 x 1	35
16DFC6-H, 32DFC6-C		
32DFC6-G, 32DFC6-H		
63DFC6-C, 63DFC6-G	M16 x 1	62
63DFC6-H		
16DFC6-N, 32DFC6-N	M20 x 1	89
63DFC6-N, 100DFC6-G		
100DFC6-H, 100DFC6-N		
100DFC6-P, 200DFC6-H	M24 x 1	124
200DFC6-N, 200DFC6-P		
200DFC6-R	M27 x 1.5	142
250DFC6-P, 250DFC6-Q	M32 x 1.5	212
250DFC6-T, 300DFC6-P		
300DFC6-Q, 300DFC6-T		

## CASE DIMENSIONS

Part No.	A $\pm 0.04$ 1	B $\pm 0.2$ 0.5	C $\pm 0.4$ 1	D $\pm 0.04$ 1	E $\pm 0.08$ 2	F
10DFC6-C	2.24 57	0.59 15	0.71 18	0.39 10	0.63 16	0.51 13
16DFC6-C	2.48 63	0.79 20	0.71 18	0.47 12	0.71 18	0.67 17
16DFC6-G	2.95	.79	1.18	0.47	0.71	0.67
16DFC6-H	75	20	30	12	18	17
16DFC6-N	3.23 82	12.6 32	1.30 33	0.63 16	0.71 18	1.06 27
32DFC6-C	2.48 63	0.79 20	0.71 18	0.47 12	0.71 18	0.67 17
32DFC6-G	2.95	0.79	1.18	0.47	0.71	0.67
32DFC6-H	75	20	30	12	18	17
32DFC6-N	3.23 82	1.26 32	1.30 33	0.63 16	0.71 18	1.06 27
63DFC6-C	3.78	0.98	1.18	0.55	1.02	0.87
63DFC6-G	96	25	30	14	26	22
63DFC6-H						
63DFC6-N	3.98 101	1.26 32	1.30 33	0.63 16	1.02 26	1.06 27
100DFC6-G	4.45	1.26	1.30	0.63	1.26	1.06
100DFC6-H	113	32	33	16	32	27
100DFC6-N						
100DFC6-P	5.24 133	1.50 38	1.97 50	0.75 19	1.26 32	1.06 27
200DFC6-H	5.12	1.26	1.30	0.75	1.57	1.06
200DFC6-N	130	32	33	19	40	27
200DFC6-P	5.79 147	1.50 38	1.97 50	0.75 19	1.57 40	1.06 27
200DFC6-R	6.50 165	2.13 54	2.68 68	0.75 19	1.57 40	1.57 40
250DFC6-P	5.83 148	2.13 54	1.65 42	0.75 19	1.81 46	1.57 40
250DFC6-Q	6.30 160	2.13 54	2.13 54	0.75 19	1.81 46	1.57 40
250DFC6-T	7.01 178	2.13 54	2.83 72	0.75 19	1.81 46	1.57 40
300DFC6-P	5.83 148	2.13 54	1.65 42	0.75 19	1.81 46	1.57 40
300DFC6-Q	6.30 160	2.13 54	2.13 54	0.75 19	1.81 46	1.57 40
300DFC6-T	7.01 178	2.13 54	2.83 72	0.75 19	1.81 46	1.57 40

## PART NUMBERS

10DFC6-D	32DFC6-H	100DFC6-H	250DFC6-P
16DFC6-C	32DFC6-N	100DFC6-N	250DFC6-Q
16DFC6-G	63DFC6-C	100DFC6-P	250DFC6-T
16DFC6-H	63DFC6-G	200DFC6-H	300DFC6-P
16AFC6-N	63DFC6-H	200DFC6-K	300DFC6-Q
32DFC6-C	63DFC6-N	200DFC6-P	300DFC6-T
32DFC6-G	100DFC6-G	200DFC6-R	

# CORCOM Feedthrough Filters and Capacitors

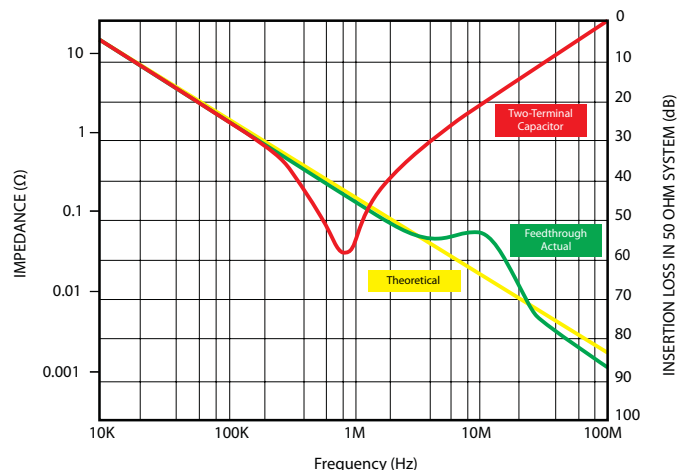
## INSTALLATION, BACKGROUND, AND SAFETY

- Feedthrough capacitors and filters are designed for through-bulkhead mounting for offering high frequency filtering in line-to-ground applications. They should be mounted through a metal bulkhead or chassis. The bulkhead mounting surface should be clean and unpainted to offer a low impedance patch from the capacitor or filter to the equipment chassis. Poor earth bonding will limit the available performance of the product and could compromise safety.
- Conductive paint finishes should be avoided as they do not usually provide adequate conductivity. 2 spanners should be used when making electrical connections to the terminals, and maximum tightening torque figures quoted should be observed.

## FEEDTHROUGH CAPACITOR PERFORMANCE

- Normal two-terminal capacitors resonate with their lead inductance in the region 1-10 MHz
- This limits their use as suppression components above a few MHz
- Feedthrough capacitors have no major resonance as they have no lead inductance
- Performance continues to increase with frequency
- Feedthrough capacitors are essential for good high frequency performance
- Feedthrough filters incorporate feedthrough capacitors for the same benefits
- As an example, this graph compares the performance of a  $1\mu\text{F}$  feedthrough capacitor with a  $1\mu\text{F}$  two-terminal capacitor

FEEDTHROUGH CAPACITOR PERFORMANCE



## SAFETY

- Relevant safety standards have been adhered to in the design and manufacture of these products. However, all capacitors will store charge after power has been removed and must be treated with respect as this can be lethal when the voltage and charge are high enough. The filters and capacitors contained within this catalog do not contain internal discharge resistors. It is therefore recommended that they are fitted with external discharge resistors to discharge the capacitors after the power has been removed. Where necessary, terminals should be enclosed by the user to prevent any danger of electric shock or accidental shorting. In all cases, capacitors and filters should always be shorted to earth prior to touching to ensure they are fully discharged.
- The user should ensure he/she is familiar with restrictions on capacitance value, earth leakage current, test voltage, and safety labeling requirements, which may be applicable to his/her particular installation. In particular, safety standards IEC950 and EN60950, which most electrical equipment needs to comply with, contain a number of specific requirements for capacitors, which may be applicable.

## FOR MORE INFORMATION

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