tyco Electronics

Introducing...

RoHS Ready

CORCOM Feedthrough Filters and Capacitors

AFC, DFC, FFA and FFD Series

CORCOM Feedthrough Filters and Capacitors

FILTERS

CAPACITORS

CORCOM Feedthrough Filters and Capacitors

APPLICATIONS

- 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

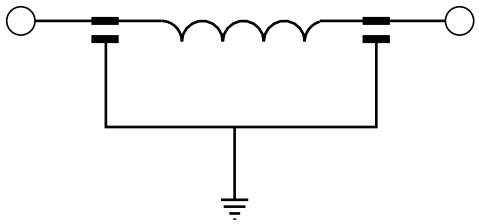
KEY FEATURES

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

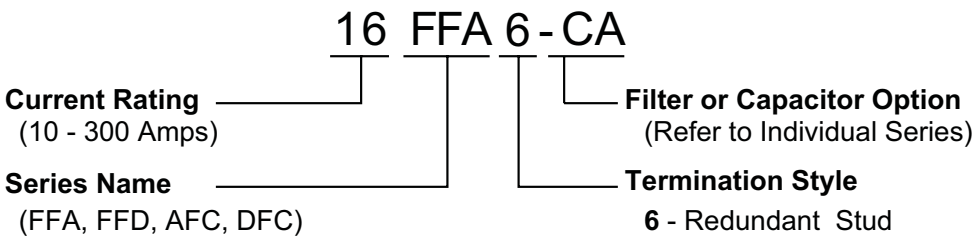
STANDARDS & SPECS

- UL Pending
- CSA Pending

SCHEMATIC (Filtered version only)



PART NUMBER SCHEMATIC (Example shown below)



FFA Series
AC Feedthrough Filters - Class Y2

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

Rated Voltage (max): 250 VAC 50/60 Hz

Rated Current: 10 to 300 amps

Test Voltage (two seconds): 5000 VDC

Capacitor Class (EN132400): Designed to meet Y2

Pulse Test (EN132400): 5000V Peak

Insulation Resistance (within 1 minute):
For C <0.33µF, R> 15000MΩ
For C>0.33µF, RC(MΩ*µF)>5000s

Operating Ambient Temperature Range (@ rated current I_r):

10 to 100 Amps: -40˚C to +60˚C
200 Amps: -40˚C to +50˚C
250 & 300 Amps: -40˚C to +40˚C

Category Temperature Range: -40˚C to +85˚C

Climatic Category: 40/85/21

MTBF: Typically >5 million hours

Insulating Materials Flammability Rating: UL 94V-0

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

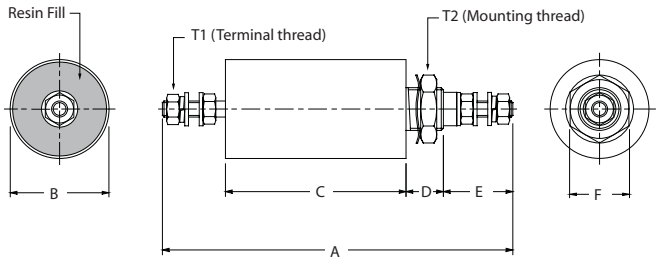
Filter ID	Frequency - MHz 0.01	0.03	0.1	0.3	1	10	100	1000
BA	-	-	-	-	4	18	80	100
CA	-	-	2	4	10	22	65	100
CE	-	-	2	3	10	28	65	100
DG	-	-	3	7	15	40	72	100
DH	-	-	3	7	15	40	72	100
GB	-	-	6	11	21	50	85	100
GJ	-	-	5	12	21	60	90	100
HC	-	2	10	18	27	60	100	100
HD	-	2	10	18	27	60	100	100
HF	-	2	10	18	27	60	100	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 Amp: For temperature, θ $I_\theta = I_R \sqrt{(85-\theta)/25}$
200 Amp: For temperature, θ $I_\theta = I_R \sqrt{(85-\theta)/35}$
250 & 300 Amp: For temperature, θ $I_\theta = I_R \sqrt{(85-\theta)/45}$

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 32FFA6-CA/DH/HN	M4	11
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 16FFA6-CA, 32FFA6-CA	M12 x 1	35
16FFA6-DG/HN 32FFA6-DH/HN 63FFA6-GB	M16 x 1	62
63FFA6-JK, 100FFA6-HC	M20 x 1	89
100FFA6-NP, 200FFA6-HD	M24 x 1	124
63FFA6-NP 100FFA6-PP 200FFA6-NP/PP	M27 x 1.5	142
250FFA6-HF/NP/PP 300FFA6-HF/NP/PP	M32 x 1.5	212

CASE DIMENSIONS

Part No.	A ±.04 *1*	B ±.02 *0.5*	C ±.08 *2*	D ±.04 *1*	E ±.08 *2*	F
10FFA6-BA	**3.86** *98*	**0.79** *20*	**2.24** *57*	**0.47** *12*	**0.63** *16*	**0.67** *17*
16FFA6-CA 32FFA6-CA	**4.17** *106*	**0.79** *20*	**2.40** *61*	**0.47** *12*	**0.71** *18*	**0.67** *17*
63FFA6-GB	**6.30** *160*	**0.98** *25*	**3.70** *94*	**0.55** *14*	**1.02** *26*	**0.87** *22*
100FFA6-HC	**7.24** *184*	**1.26** *32*	**4.09** *104*	**0.63** *16*	**1.26** *32*	**1.06** *27*
200FFA6-HD	**8.23** *209*	**1.50** *38*	**4.41** *112*	**0.75** *19*	**1.57** *40*	**1.06** *27*
250FFA6-HF 300FFA6-HF	**7.87** *200*	**2.13** *54*	**3.66** *93*	**0.75** *19*	**1.81** *46*	**1.57** *40*
10FFA6-CE	**4.21** *107*	**0.79** *20*	**2.60** *66*	**0.47** *12*	**0.63** *16*	**0.67** *17*
16FFA6-DG 32FFA6-DH	**4.57** *116*	**0.98** *25*	**2.72** *69*	**0.55** *14*	**0.71** *18*	**0.87** *22*
63FFA6-JK	**6.81** *173*	**1.26** *32*	**4.13** *105*	**0.63** *16*	**1.02** *26*	**1.06** *27*
100FFA6-NP	**8.98** *228*	**1.50** *38*	**5.71** *145*	**0.75** *19*	**1.26** *32*	**1.06** *27*
200FFA6-NP	**9.57** *243*	**2.13** *54*	**5.75** *146*	**0.75** *19*	**1.57** *40*	**1.57** *40*
250FFA6-NP 300FFA6-NP	**10.51** *267*	**2.13** *54*	**6.30** *160*	**0.75** *19*	**1.81** *46*	**1.57** *40*
10FFA6-GJ	**5.51** *140*	**0.79** *20*	**3.90** *99*	**0.47** *12*	**0.63** *16*	**0.67** *17*
16FFA6-HN 32FFA6-HN	**5.83** *148*	**0.98** *25*	**3.98** *101*	**0.55** *14*	**0.71** *18*	**0.87** *22*
63FFA6-NP	**7.44** *189*	**2.13** *54*	**4.65** *118*	**0.75** *19*	**1.02** *26*	**1.57** *40*
100FFA6-PP	**8.94** *227*	**2.13** *54*	**5.67** *144*	**0.75** *19*	**1.26** *32*	**1.57** *40*
200FFA6-PP	**9.57** *243*	**2.13** *54*	**5.75** *146*	**0.75** *19*	**1.57** *40*	**1.57** *40*
250FFA6-PP 300FFA6-PP	**10.51** *267*	**2.13** *54*	**6.30** *160*	**0.75** *19*	**1.81** *46*	**1.57** *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 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

Rated Voltage (max): 130 VDC

Rated Current: 10 to 200 amps

Test Voltage (two seconds): 2500 VDC

Capacitor Class (EN132400): Designed to meet Y4

Pulse Test (EN132400): 2500V Peak

Insulation Resistance (within 1 minute):
For C <0.33µF, R> 15000MΩ
For C>0.33µF, RC(MΩ*µF)>5000s

Operating Ambient Temperature Range (@ rated current I_r):
10 to 100 Amps: -40˚C to +60˚C
200 Amps: -40˚C to +50˚C

Category Temperature Range: -40˚C to +85˚C

Climatic Category: 40/85/21

MTBF: Typically >5 million hours

Insulating Materials Flammability Rating: 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

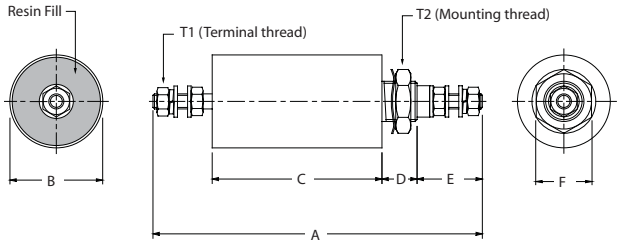
Current derating above ambient:

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

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

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 32FFD6-CA/HE	M4	11
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 16FFD6-CA/HE 32FFD6-CA/HE	M12 x 1	35
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 ±.04 *1*	B ±.02 *0.5*	C ±.08 *2*	D ±.04 *1*	E ±.08 *2*	F
10FFD6-CA	**3.54** *90*	**0.79** *20*	**1.93** *49*	**0.47** *12*	**0.63** *16*	**0.67** *17*
16FFD6-CA 32FFD6-CA	**3.86** *98*	**0.79** *20*	**2.09** *53*	**0.47** *12*	**0.71** *18*	**0.67** *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 32FFD6-HE	**5.47** *139*	**0.79** *20*	**3.70** *94*	**0.47** *12*	**0.71** *18*	**0.67** *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 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

Rated Voltage (max): 250 VAC 50/60 Hz

Rated Current: 10 to 300 amps

Test Voltage (two seconds): 5000 VDC

Capacitor Class (EN132400): Designed to meet Y2

Pulse Test (EN132400): 5000V Peak

Insulation Resistance (within 1 minute):
For C <0.33µF, R> 15000MΩ
For C>0.33µF, RC(MΩ*µF)>5000s

Operating Ambient Temperature Range (@ rated current I_r):
10 to 200 Amps: -40˚C to +60˚C
250 & 300 Amps: -40˚C to +40˚C

Category Temperature Range: -40˚C to +85˚C

Climatic Category: 40/85/21

MTBF: Typically >10 million hours

Insulating Materials Flammability Rating: UL 94V-0

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

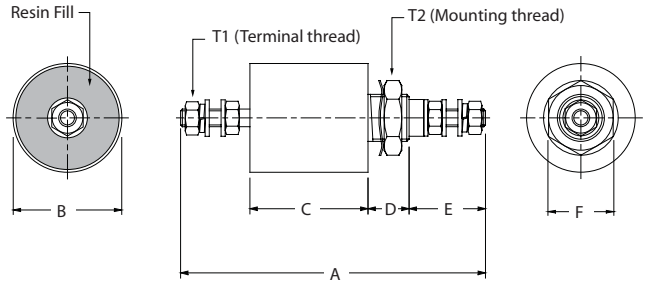
Cap ID	Frequency - MHz 0.01	0.03	0.1	0.3	1	10	100	1000
A	-	-	-	-	-	8	38	45
B	-	-	-	-	-	14	43	60
C	-	-	-	-	3	21	45	70
F	-	-	-	4	12	30	48	90
G	-	-	2	6	15	34	50	90
H	-	2	5	11	20	40	65	90
K	-	4	11	18	27	45	85	90
N	6	9	16	22	33	33	90	90
P	10	15	22	30	40	42	90	90

Current derating above ambient:

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

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

CASE STYLE



T1 - Terminal Thread

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

T2 - Mounting Thread

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

CASE DIMENSIONS

Part No.	A ±.04 1	B ±.02 0.5	C ±.04 1	D ±.04 1	E ±.08 2	F
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 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

Rated Voltage (max): 130 VDC

Rated Current: 10 to 300 amps

Test Voltage (two seconds): 2500 VDC

Capacitor Class (EN132400): Designed to meet Y4

Pulse Test (EN132400): 2500V Peak

Insulation Resistance (within 1 minute):
For C <0.33µF, R> 15000MΩ
For C>0.33µF, RC(MΩ*µF)>5000s

Operating Ambient Temperature Range (@ rated current I_r):
10 to 200 Amps: -40˚C to +60˚C
250 & 300 Amps: -40˚C to +40˚C

Category Temperature Range: -40˚C to +85˚C

Climatic Category: 40/85/21

MTBF: Typically >10 million hours

Insulating Materials Flammability Rating: 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

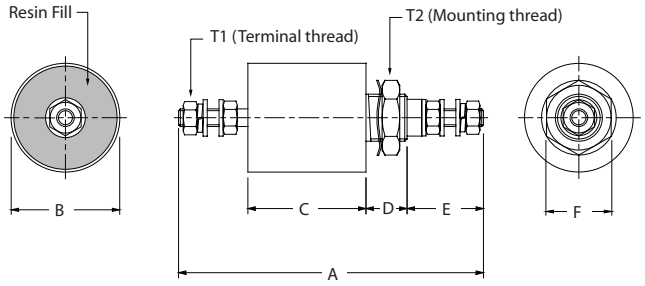
Current derating above ambient:

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

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

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 16DFC6-H, 16DFC6-N 32DFC6-C, 32DFC6-G 32DFC6-H, 32DFC6-N	M4	11
63DFC6-C, 63DFC6-G 63DFC6-H, 63DFC6-N	M6	22
100DFC6-G,100DFC6-H 100DFC6-N, 100DFC6-P	M8	44
200DFC6-H, 200DFC6-N 200DFC6-P, 200DFC6-R	M10	71
250DFC6-P, 250DFC6-Q 250DFC6-T	M12	97
300DFC6-P, 300DFC6-Q 300DFC6-T	M16	177

T2 - Mounting Thread

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

CASE DIMENSIONS

Part No.	A ±.04 *1*	B ±.2 *0.5*	C ±.4 *1*	D ±.04 *1*	E ±.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 16DFC6-H	**2.95** *75*	**.79** *20*	**1.18** *30*	**0.47** *12*	**0.71** *18*	**0.67** *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 32DFC6-H	**2.95** *75*	**0.79** *20*	**1.18** *30*	**0.47** *12*	**0.71** *18*	**0.67** *17*
32DFC6-N	**3.23** *82*	**1.26** *32*	**1.30** *33*	**0.63** *16*	**0.71** *18*	**1.06** *27*
63DFC6-C 63DFC6-G 63DFC6-H	**3.78** *96*	**0.98** *25*	**1.18** *30*	**0.55** *14*	**1.02** *26*	**0.87** *22*
63DFC6-N	**3.98** *101*	**1.26** *32*	**1.30** *33*	**0.63** *16*	**1.02** *26*	**1.06** *27*
100DFC6-G 100DFC6-H 100DFC6-N	**4.45** *113*	**1.26** *32*	**1.30** *33*	**0.63** *16*	**1.26** *32*	**1.06** *27*
100DFC6-P	**5.24** *133*	**1.50** *38*	**1.97** *50*	**0.75** *19*	**1.26** *32*	**1.06** *27*
200DFC6-H 200DFC6-N	**5.12** *130*	**1.26** *32*	**1.30** *33*	**0.75** *19*	**1.57** *40*	**1.06** *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

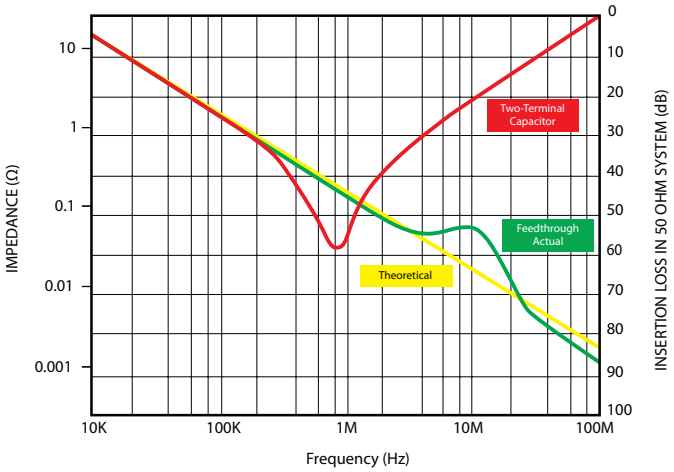
INSTALLATION, BACKGROUND, AND SAFETY

- 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 1μF feedthrough capacitor with a 1μF 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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