FFA Series

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Component Recognized by UL to US and Canadian Requirements



FFA Series

- AC feedthrough filters
- Current Ratings from 10 to 300A
- Designed to meet the very stringent safety requirements of EN133200 class Y2 including the 5000V pulse test
- Custom versions available

Ordering Information

10 FFA6 – BA

- BA: Filter ID (See Table)
- FFA6: FFA Series Screw Terminals
- 10: Current Rating *(in A)*

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

*@ 250 VAC 60 Hz
**240 for 100A Version

Specifications

Rated Voltage (max): 250 VAC

Operating Frequency: 50/60 Hz

Rated Current: 10 to 300A

Test Voltage (two seconds): 5000 VDC

Capacitor Class (EN133200): Designed to meet Y2

Pulse Test (EN133200): 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 (at rated current I_r):
10 to 100A: -40°C to +60°C
200A: -40°C to +50°C
250 & 300A: -40°C to +40°C

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

Current Derating Above Ambient:
10-100A: For temperature, θ $I_\theta = IR\sqrt{(85-\theta)/25}$
200A: For temperature, θ $I_\theta = IR\sqrt{(85-\theta)/35}$
250 & 300A: For temp., θ $I_\theta = IR\sqrt{(85-\theta)/45}$

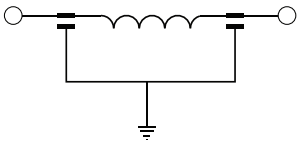
Climatic Category: 40/85/21

MTBF: > 5 million hours typical

Insulating Materials Flammability Rating: UL94V-0

Case & Terminal Material: Nickel Plated Brass

Electrical Schematic

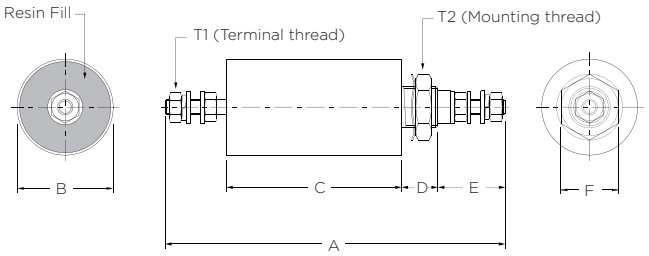


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FFA Series

Case Style



T1 – Terminal Thread

Part No.	Thread	Torque max. in.lb.
10FFA6-BA/CE/CJ	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 No.	Thread	Torque max. in.lb.
10FFA6-BA/CE/CJ 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 (max)
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*
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-HN	**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*	**6.3** *160*	**0.75** *19*	**1.81** *46*	**1.57** *40*

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Available 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

Performance Data

Typical Insertion Loss — 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

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