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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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DC Feedthrough Capacitors - Class Y4

DFC Series



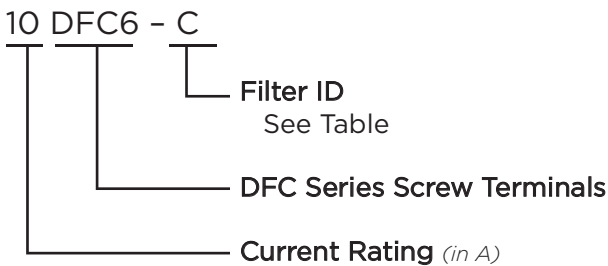
Component Recognized by
UL to US and Canadian Requirements



DFC Series

- DC feedthrough capacitors
- Current ratings from 10 to 300A
- Designed to meet the very stringent safety requirements of EN132400 class Y4 including the 2500V pulse test
- Custom versions available

Ordering Information



Filter Options / Specifications

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

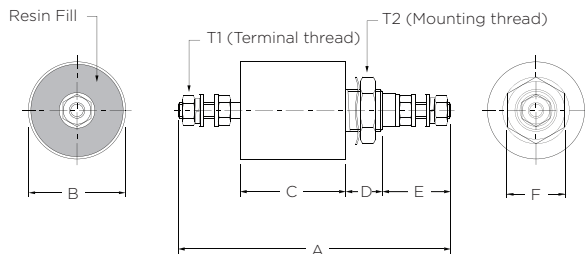
Specifications

Rated Voltage (max):	130 VDC
Rated Current:	10 to 300A
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 (at rated current I _r):	
	10 to 200A: -40°C to +60°C
	250 & 300A: -40°C to +40°C
Category Temperature Range:	-40°C to +85°C
Current Derating Above Ambient:	
	10-200A: For temperature, θ I _θ = IR √(85-θ)/25
	250 & 300A: For temp., θ I _θ = IR √(85-θ)/45
Climatic Category:	40/85/21
MTBF:	> 10 million hours typical
Insulating Materials Flammability Rating:	UL94V-0
Case & Terminal Material:	Nickel Plated Brass

DC Feedthrough Capacitors - Class Y4 (continued)

DFC Series

Case Style



T1 - Terminal Thread

Part No.	Thread	Torque max. in.lb.
10DFC6-C	M3	4
16DFC6-C/G/H/N	M4	11
32DFC6-C/G/H/N	M4	11
63DFC6-C/G/H/N	M6	22
100FDC6-G/H/N/P	M8	44
200DFC6-H/N/P/R	M10	71
250DFC6-P/Q/T	M12	97
300DFC6-P/Q/T	M16	177

T2 - Mounting Thread

Part No.	Thread	Torque max. in.lb.
10DFC6-C	M10 x 1	27
16DFC6-C/G/H	M12 x 1	35
32DFC6-C/G/H	M12 x 1	35
63DFC6-C/G/H	M16 x 1	62
16DFC6-N	M20 x 1	89
32DFC6-N	M20 x 1	89
63DFC6-N	M20 x 1	89
100DFC6-G/H/N	M24 x 1	124
100DFC6-P	M24 x 1	124
200DFC6-H/N/P	M24 x 1	124
200FFC6-R	M27 x 1.5	142

Case Dimensions

Part No.	A	B	C	D	E	F
	$\frac{\pm.04}{1}$	$\frac{\pm.02}{0.5}$	$\frac{\pm.08}{2}$	$\frac{\pm.04}{1}$	$\frac{\pm.08}{2}$	(max)
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	0.79	1.18	0.47	0.71	0.67
16DFC6-H	75	20	30	12	18	17
16DFC6-N	3.23 82	1.26 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	3.98	1.26	1.30	0.63	1.02	1.06
63DFC6-N	101	32	33	16	26	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	5.24 133	1.50 38	1.97 50	0.75 19	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	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	2.13	1.65	0.75	1.81	1.57
300DFC6-P	148	54	42	19	46	40
250DFC6-Q	6.30	2.13	2.13	0.75	1.81	1.57
300DFC6-Q	160	54	54	19	46	40
250DFC6-T	7.01	2.13	2.83	0.75	1.81	1.57
300DFC6-T	178	54	72	19	46	40

DC Feedthrough Capacitors - Class Y4 *(continued)*

DFC Series

Available Part Numbers

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

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
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	42	70	90	90
T	22	31	41	52	62	82	90	90