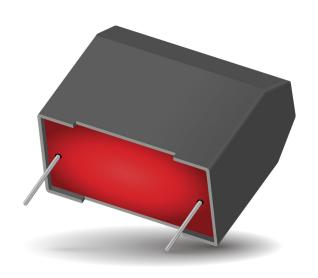
DC FILTERING

FFB* RoHS Compliant





PACKAGING MATERIAL

Self-extinguishing plastic case (V0 = in accordance with UL 94) filled thermosetting resin.

Self-extinguishing thermosetting resin (V0 = in accordance with UL 94; 13F2 = in accordance with NF F 16-101).

STANDARDS

Power electronic capacitors IEC 61071-1, IEC 61071-2:

> IEC 60384-16: Fixed metallized polypropylene film

> > dielectric DC capacitors

IEC 60384-16-1: Fixed metallized polypropylene film

dielectric DC capacitors Assessment

level E

IEC 60384-17: Fixed metallized polypropylene film

dielectric AC and pulse capacitors

IEC 60384-17-1: Fixed metallized polypropylene film

dielectric AC and pulse capacitors

Assessment level E

IEC 60384-2: Fixed metallized polyester

capacitors

The FFB series uses a metallized polypropylene or polyester dielectric with the controlled self-healing process, specially treated to have a very high dielectric strength in operating conditions up to 105°C.

This is a dry solution for polypropylene and dry or wet for polyester.

The FFB has been designed for printed circuit board mounting. Furthermore, their performances allow to be a very interesting alternative to electrolytic technology because they can withstand much higher levels of surge voltage.

APPLICATIONS

The FFB capacitor is particularly designed for DC filtering, low reactive

HOT SPOT CALCULATION

See Hot Spot Temperature, page 3.

 $\theta_{\text{hot spot}} = \theta_{\text{ambient}} + (P_{\text{d}} + P_{\text{t}}) \times R_{\text{th}}$ with P_d (Dielectric losses) = Q x tg δ_0 Q x tg δ_0 \Rightarrow [½ x C_n x (V_{peak} to _{peak})² x f] x tg δ_0 $tg\delta_0$ (tan delta)

> For polypropylene, $tg\delta_0 = 2 \times 10^{-4}$ for frequencies up to 1MHz and is independent of temperatures. For polyester, $tg\delta_0$ values are shown in graph 4 on page 3.

 P_t (Thermal losses) = $R_s \times (I_{rms})^2$

 I_{rms} in Ampere f in Hertz C_n in Farad where V in Volt R_s in Ohm

R_{th} in °C/W

OPERATING TEMPERATURE RANGE

(according to the power to be dissipated) -55°C to +105°C

LIFETIME EXPECTANCY

One unique feature of this technology (as opposed to electrolytics) is how the capacitor reacts at the end of its lifetime. Unlike aluminum, electrolytics film capacitors do not have a catastrophic failure mode. Film capacitors simply experience a parametric loss of capacitance of about 2%, with no risk of short circuit.

Please note that this is theoretical, however, as the capacitor continues to be functional even after this 2% decrease.

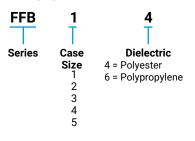


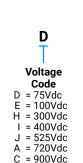
DC FILTERING

FFB* RoHS Compliant



HOW TO ORDER





L = 1100Vdc



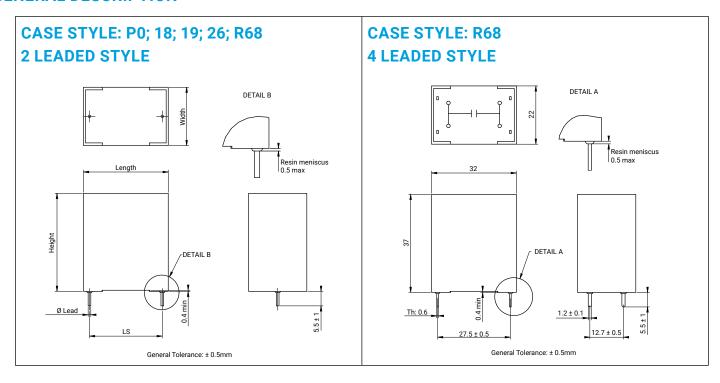






Consult Factory for Special Options

GENERAL DESCRIPTION



DIMENSIONS: millimeters

Case Size	Case Style	Length (mm)	Width (mm)	Height (mm)	Dimensions lead (mm)	LS (mm)
1	PO	31.1	13.0	22.4	Ø 0.80	27.5
2	18	31.1	14.9	25.7	Ø 0.80	27.5
3	19	31.1	17.3	29.8	Ø 0.80	27.5
4	26	31.1	20.8	31.3	Ø 1.00	27.5
5	R68 2 Leaded Style	32.0	22.0	37.0	Ø 1.00	27.5
	R68 4 Leaded Style	32.0	22.0	37.0	1.20 x 0.60	27.5

DC FILTERING

FFB* - Polyester Dielectric RoHS Compliant

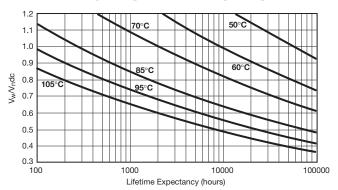


POLYESTER DIELECTRIC FOR LOW VOLTAGE DC FILTERING

ELECTRICAL CHARACTERISTICS - POLYESTER DIELECTRIC

Items	Characteristics		
Climatic category	55/105/56 (IEC 60068)		
Test voltage between terminals @ 25°C	1.5 x V _n dc		
Capacitance range C _n	6.2μF to 110μF		
Tolerance on C _n	±10%		
Rated DC voltage V _n dc	75 to 400 V		
Dielectric	polyester		
Max Stray Inductance	20nH		

AND HOT SPOT TEMPERATURE - POLYESTER DIELECTRIC



Vw = Permanent working or operating DC voltage.

RATINGS AND PART NUMBER REFERENCE - POLYESTER DIELECTRIC

Part Number	Capacitance (µF)	Case Style	I _{rms} max. (A)	R_s (m Ω)	R _{th} (°C/W)	Typical Weight (g)		
V _n dc 75V Vrms max.: 45 volts Voltage Code: D								
FFB14D0336K	33	PO	3	3	40.7	15		
FFB24D0476K	47	18	4.3	2	33.3	20		
FFB34D0686K	68	19	6.2	1.7	29.9	25		
FFB44D0826K	82	26	7.4	1.6	26.7	32		
FFB54D0117K	110	R68 (2 terminals)	10	1.4	22.9	40		
FFB54D0117KJC	110	R68 (4 terminals)	10	1.4	22.9	40		
V _n dc 100V Vrms max.: 60 volts Voltage Code: E								
FFB14E0206K	20	PO	2.6	3	40.5	15		
FFB24E0276K	27	18	3.5	2.5	33.3	20		
FFB34E0396K	39	19	5	2	29.8	25		
FFB44E0476K	47	26	6	1.7	26.6	32		
FFB54E0686K	68	R68 (2 terminals)	9	1.4	22.8	40		
FFB54E0686KJC	68	R68 (4 terminals)	9	1.4	22.8	40		
		V _n dc 300V Vrms m	ax.: 90 volts Voltage (Code: H				
FFB14H0755K	7.5	PO	2.4	16	40.7	15		
FFB24H0116K	11	18	3.6	11	33.5	20		
FFB34H0166K	16	19	5.2	8	29.9	25		
FFB44H0186K	18	26	6	7	27.1	32		
FFB54H0276K	27	R68 (2 terminals)	9	5	22.9	40		
FFB54H0276KJC	27	R68 (4 terminals)	9	5	22.9	40		
V _n dc 400V Vrms max.: 105 volts Voltage Code: I								
FFB14I0625K*	6.2	PO	2.5	17	40.5	15		
FFB24I0755K*	7.5	18	3.1	14	33.5	20		
FFB34I0126K*	12	19	5	9	29.9	25		
FFB44I0156K*	15	26	6.2	7	26.4	32		
FFB54I0206K*	20	R68 (2 terminals)	8.2	5.5	22.8	40		
FFB54I0206KJC*	20	R68 (4 terminals)	8.2	5.5	22.8	40		

^(*) Polyester dielectric film wet silicone







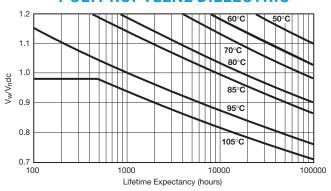
POLYPROPYLENE DIELECTRIC FOR INDUSTRIAL DC FILTERING

These capacitors have been designed principally for high and medium power DC filtering applications.

ELECTRICAL CHARACTERISTICS - POLYPROPYLENE DIELECTRIC

Climatic category	55/105/56 (IEC 60068)		
Test voltage between terminals @ 25°C	1.5 x V _n dc		
Capacitance range C _n	1.5μF to 13μF		
Tolerance on C _n	±10%		
Rated DC voltage V _n dc	525 to 1100 V		
Dielectric	polypropylene		

AND HOT SPOT TEMPERATURE - POLYPROPYLENE DIELECTRIC



Vw = Working DC Voltage • Vn = Rated DC Voltage

RATINGS AND PART NUMBER REFERENCE - POLYPROPYLENE DIELECTRIC

Part Number	Capacitance (µF)	Case Style	I _{rms} max. (A)	R _s (mΩ)	R _{th} (°C/W)	Typical Weight (g)		
V _n dc 525V Vrms max.: 105 volts Voltage Code: J								
FFB16J0395K	3.9	PO	5.1	30	45.7	15		
FFB26J0565K	5.6	18	7.4	21	36.4	20		
FFB36J0825K	8.2	19	10.9	15	32.6	25		
FFB46J0106K	10	26	12	12	29.8	32		
FFB56J0136K	13	R68 (2 terminals)	12	9	24.3	40		
FFB56J0136KJC	13	R68 (4 terminals)	16.7	9	24.3	40		
V _n dc 720V Vrms max.: 120 volts Voltage Code: A								
FFB16A0335K	3.3	PO	5.0	31	45.0	15		
FFB26A0435K	4.3	18	6.5	24	36.2	20		
FFB36A0625K	6.2	19	9.4	17	32.7	25		
FFB46A0755K	7.5	26	11.4	14	29.9	32		
FFB56A0106K	10	R68 (2 terminals)	12	11	24.2	40		
FFB56A0106KJC	10	R68 (4 terminals)	15.2	11	24.2	40		
		V _n dc 900V Vrms m	ax.: 150 volts Voltage	Code: C				
FFB16C0205K	2	PO	3.6	41	45.7	15		
FFB26C0275K	2.7	18	4.9	30	36.6	20		
FFB36C0395K	3.9	19	7.2	21	32.9	25		
FFB46C0515K	5.1	26	9.3	16	29.7	32		
FFB56C0685K	6.8	R68 (2 terminals)	12	12	24.1	40		
FFB56C0685KJC	6.8	R68 (4 terminals)	12.5	12	24.1	40		
V _n dc 1100V Vrms max.: 180 volts Voltage Code: L								
FFB16L0155K	1.5	PO	3.3	45	45.2	15		
FFB26L0185K	1.8	18	3.9	40	36.5	20		
FFB36L0245K	2.4	19	5.3	28	33.4	25		
FFB46L0305K	3	26	6.6	23	30.2	32		
FFB56L0475K	4.7	R68 (2 terminals)	10.3	15	24.1	40		
FFB56L0475KJC	4.7	R68 (4 terminals)	10.3	15	24.1	40		

单击下面可查看定价,库存,交付和生命周期等信息

>>AVX