

HOW TO ORDER

FFB

Series

1

Case Size

1
2
3
4
5

4

Dielectric

4 = Polyester
6 = Polypropylene

D

Voltage Code

D = 75Vdc
E = 100Vdc
H = 300Vdc
I = 400Vdc
J = 525Vdc
A = 720Vdc
C = 900Vdc
L = 1100Vdc

0336

Capacitance Code

0 + pF code
0336 = 33µF
0686 = 68µF
0117 = 110µF
etc.

K

Capacitance Tolerances

K = ±10%

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Lead Styles

-- = 2 Leaded
JC = 4 Leaded

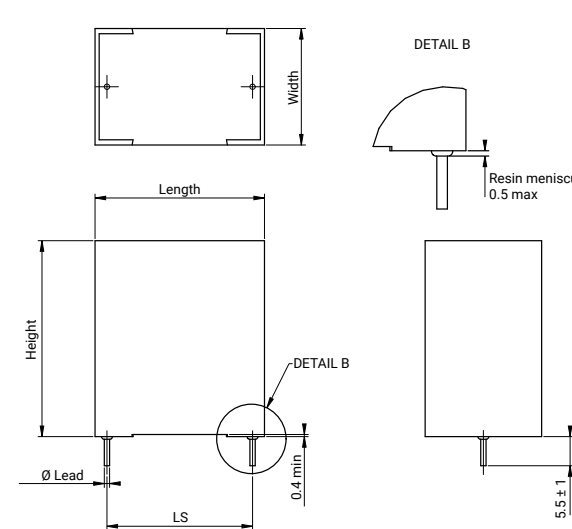
Consult Factory for Special Options



GENERAL DESCRIPTION

CASE STYLE: P0; 18; 19; 26; R68

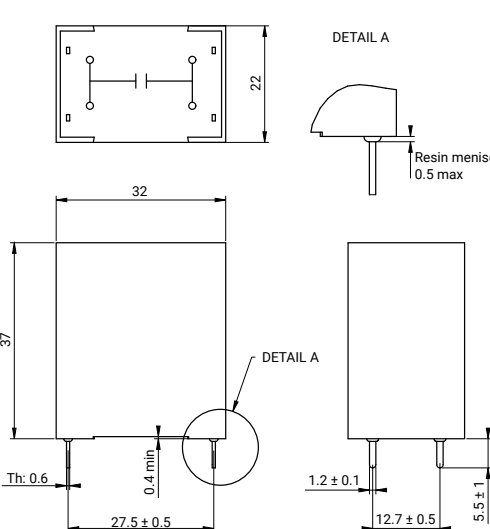
2 LEADED STYLE



General Tolerance: ± 0.5mm

CASE STYLE: R68

4 LEADED STYLE



General Tolerance: ± 0.5mm

DIMENSIONS: millimeters

Case Size	Case Style	Length (mm)	Width (mm)	Height (mm)	Dimensions lead (mm)	LS (mm)
1	P0	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

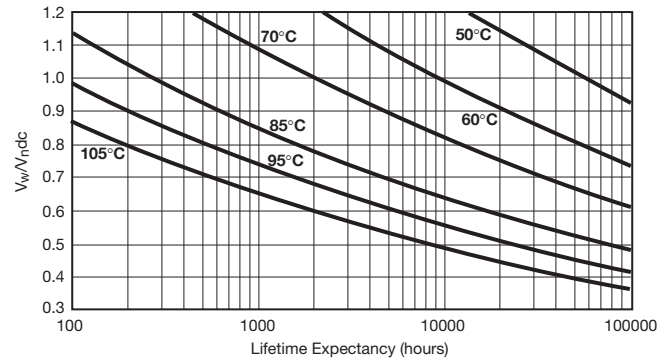
FFB* – Polyester Dielectric **RoHS Compliant**

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

LIFETIME EXPECTANCY vs VOLTAGE AND HOT SPOT TEMPERATURE – POLYESTER DIELECTRIC



V_w = 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 (mΩ)	R _{th} (°C/W)	Typical Weight (g)
V_ndc 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_ndc 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_ndc 300V Vrms max.: 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_ndc 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

DC FILTERING

FFB* – Polypropylene Dielectric **RoHS Compliant**



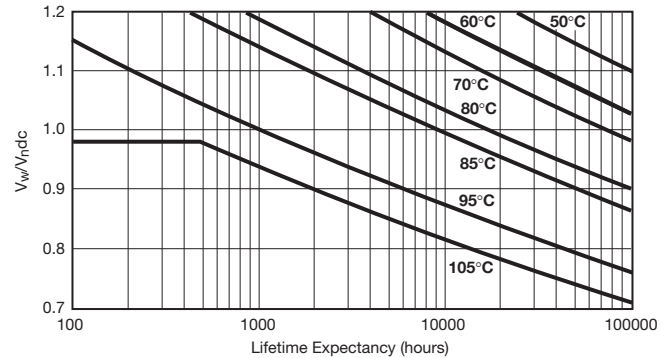
POLYPROPYLENE DIELECTRIC FOR INDUSTRIAL DC FILTERING

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

LIFETIME EXPECTANCY VS VOLTAGE AND HOT SPOT TEMPERATURE – POLYPROPYLENE DIELECTRIC



V_w = Working DC Voltage • V_n = 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_ndc 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_ndc 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_ndc 900V Vrms max.: 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_ndc 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