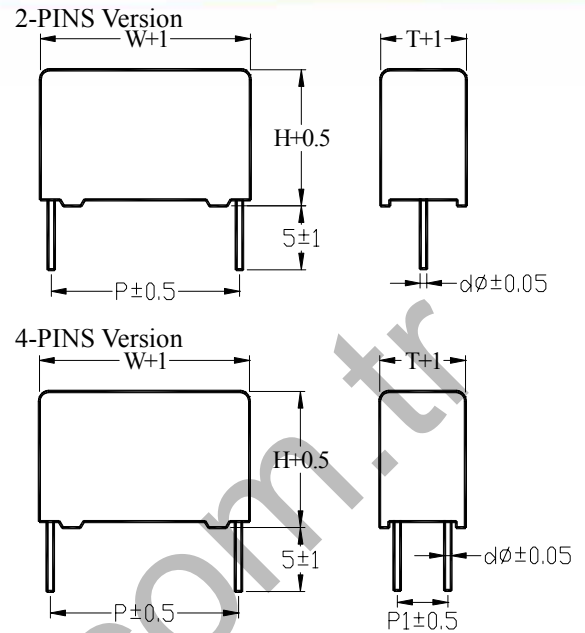




Metallized Polypropylene Capacitor

EPB



Construction:

- Dielectric : Polypropylene Film .
- Electrodes : Metallization
- Construction : Low inductive type.
- Leads : Tinned Wire.
- Outer coating : Flame retarding epoxy resin (UL 94V-0)

Feature:

- High Capacitance Density
- High Ripple Current
- Self-Healing

Recommended Application:

- High performance DC filtering applications
- Frequency converters
- Solar inverters

Electrical Characteristics:

Related Documents	IEC 61071/60068				
Rated Voltage	V_{NDC85}	700V	800V	900V	1100V
	V_{OPDC70}	800V	900V	1100V	1300V
	$V_{OPDC105}$	500V	550V	650V	800V
Rated Temperature	-40°C ~ +85°C.				
MAXIMUM OPERATING TEMPERATURE (CASE)	105				
Capacitance Range	1.0 μ F ~ 60.0 μ F.				
Capacitance Tolerance	$\pm 5\%$ (J) , $\pm 10\%$ (K)				
Insulation Resistance	Terminal to Terminal: (at 20°C \pm 5°C) , Voltage charge time : 1 minute. Voltage : 100VDC. $\geq 10000M\Omega \times \mu$ F				
Withstand Voltage	Terminal to Terminal: (at 20°C \pm 5°C) $1.5 \times V_R$ applied for 10 sec.				
Self Inductance(Ls)	<1 nH per mm of lead spacing				



Metallized Polypropylene Capacitor

$V_{NDC85} = 700VDC$, $V_{OPDC70} = 800VDC$

CAP μF	V_{NDC}	Dimensions (mm)			P mm	P1 mm	d mm	dv/dt V/ μs	I_{PEAK} A	ESR 10Khz m	Irms 10Khz A	tan δ 1Khz %	tan δ 10Khz %	SPQ	TYPE NO.
		W	H	T											
1.0	700	31	18	9	27.5	-	0.8	75	75	60	2.5	0.09	0.65	252	EPB-105*0700DB127B
3.0	700	31	20	11	27.5	-	0.8	75	225	25	4	0.09	0.65	207	EPB-305*0700DB127B
5.0	700	31	24.5	15	27.5	-	0.8	75	375	17	6	0.09	0.65	153	EPB-505*0700DB127B
7.0	700	31	28	18	27.5	-	0.8	75	525	12	8	0.09	0.65	126	EPB-705*0700DB127B
10.0	700	31	31	22	27.5	-	0.8	75	750	9	10	0.10	0.70	99	EPB-106*0700DB127B
12.0	700	31	37	22	27.5	-	0.8	75	900	7	11.5	0.10	0.70	99	EPB-126*0700DB127B
15.0	700	41.5	35	20	37.5	-	1.0	40	600	10	9	0.15	1.3	84	EPB-156*0700DB137B
15.0	700	41.5	35	20	37.5	10.2	1.2	40	600	9	10	0.13	1.2	84	EPB-156*0700DB137B-F
20.0	700	41.5	39	24	37.5	-	1.0	40	800	8	11	0.15	1.3	70	EPB-206*0700DB137B
20.0	700	41.5	39	24	37.5	10.2	1.2	40	800	7	12	0.13	1.2	70	EPB-206*0700DB137B-F
22.0	700	41.5	38	28	37.5	-	1.0	40	880	6	13	0.15	1.3	56	EPB-226*0700DB137B
22.0	700	41.5	38	28	37.5	10.2	1.2	40	880	6	13.5	0.13	1.2	56	EPB-226*0700DB137B-F
25.0	700	41.5	41	27.5	37.5	-	1.0	40	1000	6	13.5	0.15	1.3	56	EPB-256*0700DB137B
25.0	700	41.5	41	27.5	37.5	10.2	1.2	40	1000	5.5	14.5	0.13	1.2	56	EPB-256*0700DB137B-F
30.0	700	41.5	45	30	37.5	-	1.0	40	1200	5	16	0.15	1.3	56	EPB-306*0700DB137B
30.0	700	41.5	45	30	37.5	20.3	1.2	40	1200	4.5	17	0.13	1.2	56	EPB-306*0700DB137B-FF
45.0	700	58	45	30	52.5	20.3	1.2	20	900	6	15	0.25	2.4	40	EPB-456*0700DB152B-FF
50.0	700	58	50	35	52.5	20.3	1.2	20	1000	5.5	15.5	0.25	2.4	35	EPB-506*0700DB152B-FF
55.0	700	58	50	35	52.5	20.3	1.2	20	1100	5	18	0.25	2.4	35	EPB-556*0700DB152B-FF
60.0	700	58	50	35	52.5	20.3	1.2	20	1200	5	19	0.25	2.4	35	EPB-606*0700DB152B-FF

TYPE NO.

* = Capacitance tolerance code

J = $\pm 5\%$, K = $\pm 10\%$



Metallized Polypropylene Capacitor

$V_{NDC85} = 800VDC$, $V_{OPDC70} = 900VDC$

CAP μF	V_{NDC}	Dimensions (mm)			P mm	P1 mm	d mm	dv/dt V/ μs	I_{PEAK} A	ESR 10Khz m	Irms 10Khz A	tan δ 1Khz %	tan δ 10Khz %	SPQ	TYPE NO.
		W	H	T											
1.0	800	31	18	9	27.5	-	0.8	80	80	65	2	0.08	0.6	252	EPB-105*0800DB127B
2.0	800	31	20	11	27.5	-	0.8	80	160	35	3.5	0.08	0.6	207	EPB-205*0800DB127B
3.0	800	31	22	13	27.5	-	0.8	80	240	25	4.5	0.08	0.6	171	EPB-305*0800DB127B
4.0	800	31	24.5	15	27.5	-	0.8	80	320	17	5.5	0.08	0.6	153	EPB-405*0800DB127B
5.0	800	31	28	18	27.5	-	0.8	80	400	14	7	0.08	0.6	126	EPB-505*0800DB127B
6.0	800	31	28	18	27.5	-	0.8	80	480	11	7.5	0.10	0.65	126	EPB-605*0800DB127B
7.0	800	31	33	18	27.5	-	0.8	80	560	10	9	0.10	0.65	117	EPB-705*0800DB127B
8.0	800	31	31	22	27.5	-	0.8	80	640	9	9.5	0.10	0.65	99	EPB-805*0800DB127B
9.0	800	31	37	22	27.5	-	0.8	80	720	8.5	10	0.10	0.65	99	EPB-905*0800DB127B
10.0	800	41.5	35	20	37.5	-	1.0	45	450	14	8	0.14	1.2	84	EPB-106*0800DB137B
10.0	800	41.5	35	20	37.5	10.2	1.2	45	450	13	8.5	0.12	1.1	84	EPB-106*0800DB137B-F
12.0	800	41.5	33.5	22.5	37.5	-	1.0	45	540	11	8.5	0.14	1.2	70	EPB-126*0800DB137B
12.0	800	41.5	33.5	22.5	37.5	10.2	1.2	45	540	10	9	0.12	1.1	70	EPB-126*0800DB137B-F
15.0	800	41.5	39	24	37.5	-	1.0	45	675	9	10	0.14	1.2	70	EPB-156*0800DB137B
15.0	800	41.5	39	24	37.5	10.2	1.2	45	675	8	11	0.12	1.1	70	EPB-156*0800DB137B-F
20.0	800	41.5	41	27.5	37.5	-	1.0	45	900	7	13	0.14	1.2	56	EPB-206*0800DB137B
20.0	800	41.5	41	27.5	37.5	10.2	1.2	45	900	6	13.5	0.12	1.1	56	EPB-206*0800DB137B-F
22.0	800	41.5	45	30	37.5	-	1.0	45	990	6	14.5	0.14	1.2	56	EPB-226*0800DB137B
22.0	800	41.5	45	30	37.5	20.3	1.2	45	990	5.5	15.5	0.12	1.1	56	EPB-226*0800DB137B-FF
25.0	800	41.5	45	32	37.5	-	1.0	45	1125	5.5	15.5	0.14	1.2	49	EPB-256*0800DB137B
25.0	800	41.5	45	32	37.5	20.3	1.2	45	1125	5	16	0.12	1.1	49	EPB-256*0800DB137B-FF
30.0	800	58	45	30	52.5	20.3	1.2	25	750	8	12	0.22	2.2	40	EPB-306*0800DB152B-FF
35.0	800	58	45	30	52.5	20.3	1.2	25	875	7	14.5	0.22	2.2	40	EPB-356*0800DB152B-FF
40.0	800	58	50	35	52.5	20.3	1.2	25	1000	6	15	0.22	2.2	35	EPB-406*0800DB152B-FF
45.0	800	58	50	35	52.5	20.3	1.2	25	1125	5.5	17	0.22	2.2	35	EPB-456*0800DB152B-FF
50.0	800	58	53	38	52.5	20.3	1.2	25	1250	5	18	0.22	2.2	30	EPB-506*0800DB152B-FF

TYPE NO.

* = Capacitance tolerance code

J = $\pm 5\%$, K = $\pm 10\%$



Metallized Polypropylene Capacitor

$V_{NDC85} = 900VDC$, $V_{OPDC70} = 1100VDC$

CAP μF	V_{NDC}	Dimensions (mm)			P mm	P1 mm	d mm	dv/dt V/ μs	I_{PEAK} A	ESR 10Khz m	Irms 10Khz A	tan δ 1Khz %	tan δ 10Khz %	SPQ	TYPE NO.
		W	H	T											
1.0	900	31	18	9	27.5	-	0.8	80	80	65	2	0.08	0.55	252	EPB-105*0900DB127B
2.0	900	31	22	13	27.5	-	0.8	80	160	30	3.5	0.08	0.55	171	EPB-205*0900DB127B
5.0	900	31	30.5	20	27.5	-	0.8	80	400	15	7.5	0.08	0.55	108	EPB-505*0900DB127B
7.0	900	31	37	22	27.5	-	0.8	80	560	9	9	0.10	0.60	99	EPB-705*0900DB127B
10.0	900	41.5	35.5	22.5	37.5	-	1	54	540	15	8.5	0.12	1.0	70	EPB-106*0900DB137B
10.0	900	41.5	35.5	22.5	37.5	10.2	1.2	54	540	12	9	0.11	0.95	70	EPB-106*0900DB137B-F
12.0	900	41.5	39	24	37.5	-	1	54	648	11	9.5	0.12	1.0	70	EPB-126*0900DB137B
12.0	900	41.5	39	24	37.5	10.2	1.2	54	648	10.5	10	0.11	0.95	70	EPB-126*0900DB137B-F
14.0	900	41.5	38	28	37.5	-	1	54	756	10	10	0.12	1.0	56	EPB-146*0900DB137B
14.0	900	41.5	38	28	37.5	10.2	1.2	54	756	9	11	0.11	0.95	56	EPB-146*0900DB137B-F
16.0	900	41.5	41	27.5	37.5	-	1	54	864	8	11	0.12	1.0	56	EPB-166*0900DB137B
16.0	900	41.5	41	27.5	37.5	10.2	1.2	54	864	7.5	12	0.11	0.95	56	EPB-166*0900DB137B-F
20.0	900	41.5	45	30	37.5	-	1	54	1080	6	14	0.12	1.0	56	EPB-206*0900DB137B
20.0	900	41.5	45	30	37.5	20.3	1.2	54	1080	5.5	15.5	0.11	0.95	56	EPB-206*0900DB137B-FF
25.0	900	58	45	30	52.5	20.3	1.2	35	875	9	11.5	0.20	1.9	40	EPB-256*0900DB152B-FF
30.0	900	58	45	30	52.5	20.3	1.2	35	1050	8	13	0.20	1.9	40	EPB-306*0900DB152B-FF
35.0	900	58	50	35	52.5	20.3	1.2	35	1225	7	15.5	0.20	1.9	35	EPB-356*0900DB152B-FF
40.0	900	58	50	35	52.5	20.3	1.2	35	1400	6	17	0.20	1.9	35	EPB-406*0900DB152B-FF

TYPE NO.

* = Capacitance tolerance code

J = $\pm 5\%$, K = $\pm 10\%$



Metallized Polypropylene Capacitor

$V_{NDC85} = 1100VDC$, $V_{OPDC70} = 1300VDC$

CAP μF	V_{NDC}	Dimensions (mm)			P mm	P1 mm	d mm	dv/dt V/ μs	I_{PEAK} A	ESR 10Khz m	I _{rms} 10Khz A	tan δ 1Khz %	tan δ 10Khz %	SPQ	TYPE NO.
		W	H	T											
1.5	1100	31	22	13	27.5	-	0.8	100	150	25	4	0.08	0.45	171	EPB-155*1100DB127B
3.0	1100	31	28	18	27.5	-	0.8	100	300	18	6	0.08	0.45	126	EPB-305*1100DB127B
5.0	1100	31	37	22	27.5	-	0.8	100	500	10	9	0.08	0.45	99	EPB-505*1100DB127B
8.0	1100	41.5	39	24	37.5	-	1.0	73	584	12	9	0.11	0.9	70	EPB-805*1100DB137B
8.0	1100	41.5	39	24	37.5	10.2	1.2	73	584	11	9.5	0.10	0.8	70	EPB-805*1100DB137B-F
10.0	1100	41.5	38	28	37.5	-	1.0	73	730	11	10.5	0.11	0.9	56	EPB-106*1100DB137B
10.0	1100	41.5	38	28	37.5	10.2	1.2	73	730	10	11	0.10	0.8	56	EPB-106*1100DB137B-F
12.0	1100	41.5	45	30	37.5	-	1.0	73	876	9	12.5	0.11	0.9	56	EPB-126*1100DB137B
12.0	1100	41.5	45	30	37.5	20.3	1.2	73	876	8	13.5	0.10	0.8	56	EPB-126*1100DB137B-FF
14.0	1100	41.5	45	30	37.5	-	1.0	73	1022	8	13.5	0.11	0.9	56	EPB-146*1100DB137B
14.0	1100	41.5	45	30	37.5	20.3	1.2	73	1022	7	14.5	0.10	0.8	56	EPB-146*1100DB137B-FF
20.0	1100	58	45	30	52.5	20.3	1.2	50	1000	10	12.5	0.17	1.6	40	EPB-206*1100DB152B-FF
25.0	1100	58	50	35	52.5	20.3	1.2	50	1250	8	15	0.17	1.6	40	EPB-256*1100DB152B-FF
27.0	1100	58	50	35	52.5	20.3	1.2	50	1350	7	16	0.17	1.6	35	EPB-276*1100DB152B-FF
30.0	1100	58	53	38	52.5	20.3	1.2	50	1500	6	16.5	0.17	1.6	35	EPB-306*1100DB152B-FF

TYPE NO.

* = Capacitance tolerance code

J = $\pm 5\%$, K = $\pm 10\%$