

Metallized Polypropylene DC Link Film Capacitors

Series Code
91

Main Application

As intermediate circuit capacitor on PCB, DC filtering, wind power invertors, solar power invertors, frequency convertors, high power convertors.

Construction

Low inductive cell of metallized polypropylene film enclosed in flame retardant box with UL94V-0 grade epoxy resin.

Climatic Category

40/85/56

1.25/°C derating on rated voltage between 70 to 85°C

Applicable Specification

IEC 61071

Insulation Resistance

RC between leads at +25°C: $\geq 10000 \text{ sec (M}\Omega \times \mu\text{F)}$

Measuring voltage: 100V for 1 minute.

Capacitance Value

10 μ F-120 μ F

Rated Voltage

450VDC-1100VDC

Capacitance Tolerance

$\pm 5\%$, $\pm 10\%$

Voltage Proof

Between terminals: 1.5 times of rated voltage for 10 sec.

Terminal to case: 3 kVAC at 50 Hz 1 minute.

Tan δ

Specified in ordering and packing table.

Ordering code and packing units: Metallized Polypropylene DC Link Film Capacitors • Series Code 91

Cap (μ F)	Dimension (mm)						tan $\delta \times 10^{-4}$		Ir max (A)	Ip-k (A)	Is (A)	ESR (m Ω)	Ordering Code
	L	H	B	P1	P2	D	1kHz	10kHz					
Un 450VDC		Us 675V		Ur 100V	UBB 675V		UBG 3000VAC						
10	32	25	14	27.5	-	0.8	10	100	6.5	650	1950	7.5	91 106 + 2I *^
20	32	37	22	27.5	-	0.8	10	100	6.0	1300	3900	6.5	91 206 + 2I *^
30	43	40	20	37.5	12.5	1.2	15	150	13.0	376	1128	3.5	91 306 + 2I *^
40	43	35	33	37.5	20.3	1.2	15	150	14.0	501	1504	2.7	91 406 + 2I *^
45	43	35	33	37.5	20.3	1.2	15	150	14.0	564	1692	2.7	91 456 + 2I *^
50	57.5	45	30	37.5	20.3	1.2	15	150	19.0	437	1310	3.7	91 506 + 2I *^
55	57.5	45	30	37.5	20.3	1.2	15	150	20.0	480	1441	3.5	91 556 + 2I *^
60	57.5	45	30	37.5	20.3	1.2	15	150	20.0	524	1572	3.3	91 606 + 2I *^
65	57.5	45	30	52.5	20.3	1.2	35	350	20.0	568	1703	3.3	91 656 + 2I *^
70	57.5	45	30	52.5	20.3	1.2	35	350	20.0	611	1834	3.3	91 706 + 2I *^
75	57.5	45	30	52.5	20.3	1.2	35	350	20.0	655	1965	3.3	91 756 + 2I *^
80	57.5	45	30	52.5	20.3	1.2	35	350	20.0	699	2096	3.3	91 806 + 2I *^
85	57.5	45	30	52.5	20.3	1.2	35	350	20.0	743	2228	3.3	91 856 + 2I *^
90	57.5	50	35	52.5	20.3	1.2	35	350	21.0	786	2359	3.3	91 906 + 2I *^
95	57.5	50	35	52.5	20.3	1.2	35	350	21.0	830	2490	3.3	91 956 + 2I *^
100	57.5	50	35	52.5	20.3	1.2	35	350	21.0	874	2621	3.2	91 107 + 2I *^
120	57.5	60	35	52.5	20.3	1.2	35	350	25.0	1048	3145	2.5	91 127 + 2I *^
Un 575VDC		Us 863V		Ur 100V	UBB 863V		UBG 3000VAC						
40	43	46	34	37.5	20.3	1.2	20	175	15.0	604	1811	3.7	91 406 + 2Q *^
50	43	46	34	37.5	20.3	1.2	20	175	16.0	521	1563	5.1	91 506 + 2Q *^
60	57.5	45	30	52.5	20.3	1.2	36	350	18.0	625	1875	4.3	91 606 + 2Q *^
70	57.5	50	35	52.5	20.3	1.2	36	350	20.0	729	2188	3.5	91 706 + 2Q *^
80	57.5	50	35	52.5	20.3	1.2	36	350	21.0	833	2500	3.3	91 806 + 2Q *^
90	57.5	60	35	52.5	20.3	1.2	36	350	26.0	938	2813	2.3	91 906 + 2Q *^
100	57.5	60	35	52.5	20.3	1.2	36	350	29.0	1042	3125	1.8	91 107 + 2Q *^

Metallized Polypropylene DC Link Film Capacitors



Series Code 91

Ordering code and packing units: Metallized Polypropylene DC Link Film Capacitors • Series Code 91

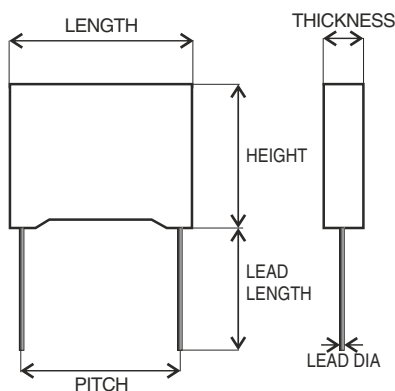
Cap (μ F)	Dimension (mm)						$\tan\delta \times 10^{-4}$		Ir max (A)	Ip-k (A)	Is (A)	ESR (m Ω)	Ordering Code
	L	H	B	P1	P2	D	1kHz	10kHz					
Un 800VDC		Us 1275V		Ur 200V		UBB 1275V		UBG 3000VAC					
10	43	27.5	24.5	37.5	10.2	1.2	18	160	6	172	517	8.5	91 106 + 2L [^]
20	43	37	28	37.5	20.3	1.2	18	160	11	345	1035	4.4	91 206 + 2L [^]
30	57.5	45	30	52.5	20.3	1.2	33	320	12	357	1071	8.2	91 306 + 2L [^]
40	57.5	45	30	52.5	20.3	1.2	33	320	16	476	1429	4.9	91 406 + 2L [^]
50	57.5	50	35	52.5	20.3	1.2	33	320	17	595	1786	4.9	91 506 + 2L [^]
60	57.5	60	35	52.5	20.3	1.2	33	320	17	714	2143	4.9	91 606 + 2L [^]
70	57.5	60	35	52.5	20.3	1.2	33	320	18	833	2500	4.5	91 706 + 2L [^]
100	57.7	60	45	52.5	20.3	1.2	33	320	31.4	1500	4500	4.8	91 107 + 2L [^]
Un 1000VDC		Us 1500V		Ur 200V		UBB 1500V		UBG 3000VAC					
10	43	35	34	37.5	20.3	1.2	15	140	15	140	647	7.2	91 106 + 3A [^]
20	43	46	34	37.5	20.3	1.2	15	140	15	140	1293	6.1	91 206 + 3A [^]
30	57.5	45	30	52.5	20.3	1.2	28	280	28	280	1339	5.4	91 306 + 3A [^]
40	57.5	50	35	52.5	20.3	1.2	28	280	28	280	1786	5.4	91 406 + 3A [^]
50	57.5	60	35	52.5	20.3	1.2	28	280	28	280	2232	5.0	91 506 + 3A [^]
Un 1100VDC		Us 1650V		Ur 200V		UBB 1650V		UBG 3000VAC					
8	42	40	20	37.5	10.2	1.2	15	130	15	130	621	8.0	91 805 + 2O [^]
10	43	35	34	37.5	10.2	1.2	15	130	15	130	776	6.0	91 106 + 2O [^]
12	43	35	34	37.5	10.2	1.2	15	130	15	130	931	5.4	91 126 + 2O [^]
20	57.5	45	30	52.5	20.3	1.2	27	260	27	260	1071	5.3	91 206 + 2O [^]
25	57.5	50	35	52.5	20.3	1.2	27	260	27	260	1339	4.3	91 256 + 2O [^]
30	57.5	60	35	52.5	20.3	1.2	27	260	27	260	1607	4.0	91 306 + 2O [^]

Un: Rated DC voltage • Us: Non-periodic impulse voltage • Ur: Ripple voltage • UBB: Test voltage between terminals • UBG: Pressure resistance between case and terminal

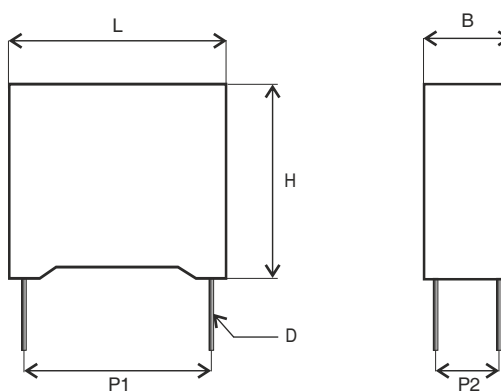
DC Voltage Codification

A		B		C		D		E		F	
1A	10	1B	12.5	1C	16	1D	20	1E	25	1F	30
2A	100	2B	125	2C	160	2D	200	2E	250	2F	300
3A	1000	3B	1250	3C	1600	3D	2000	3E	2500	3F	3000
G		H		I		J		K		L	
1G	40	1H	50	1I	45	1J	63	1K	70	1L	80
2G	400	2H	500	2I	450	2J	630	2K	700	2L	800
3G	4000	3H	5000	3I	4500	3J	6300	3K	7000	3L	8000
M		N		O		P		Q			
1M	85	1N	90	1O	110	1P	120	1Q	57.5		
2M	850	2N	900	2O	1100	2P	1200	2Q	575		
3M	8500	3N	9000	3O	11000	3P	12000	3Q	5750		

2 Terminals



4 Terminals



Note: For more details please contact info@dekielectronics.com
Metallized Polypropylene DC Link Film Capacitors • Series 91 • 20181122 • 1.0