

CAPACITOR



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DMJ-PC
DC—Link

POWER LINKS SUCCESS

DC-Link DMJ-PC series Metalized film capacitor



Application

- Widely used in DC-link circuit for filtering energy storage.
- Can replace electrolytic capacitors, better performance and longer life.
- Pv inverter, wind power converter, All kinds of frequency converter and inverter power supply, Pure electric and hybrid cars, SVG, SVC devices and other kinds of power quality management.

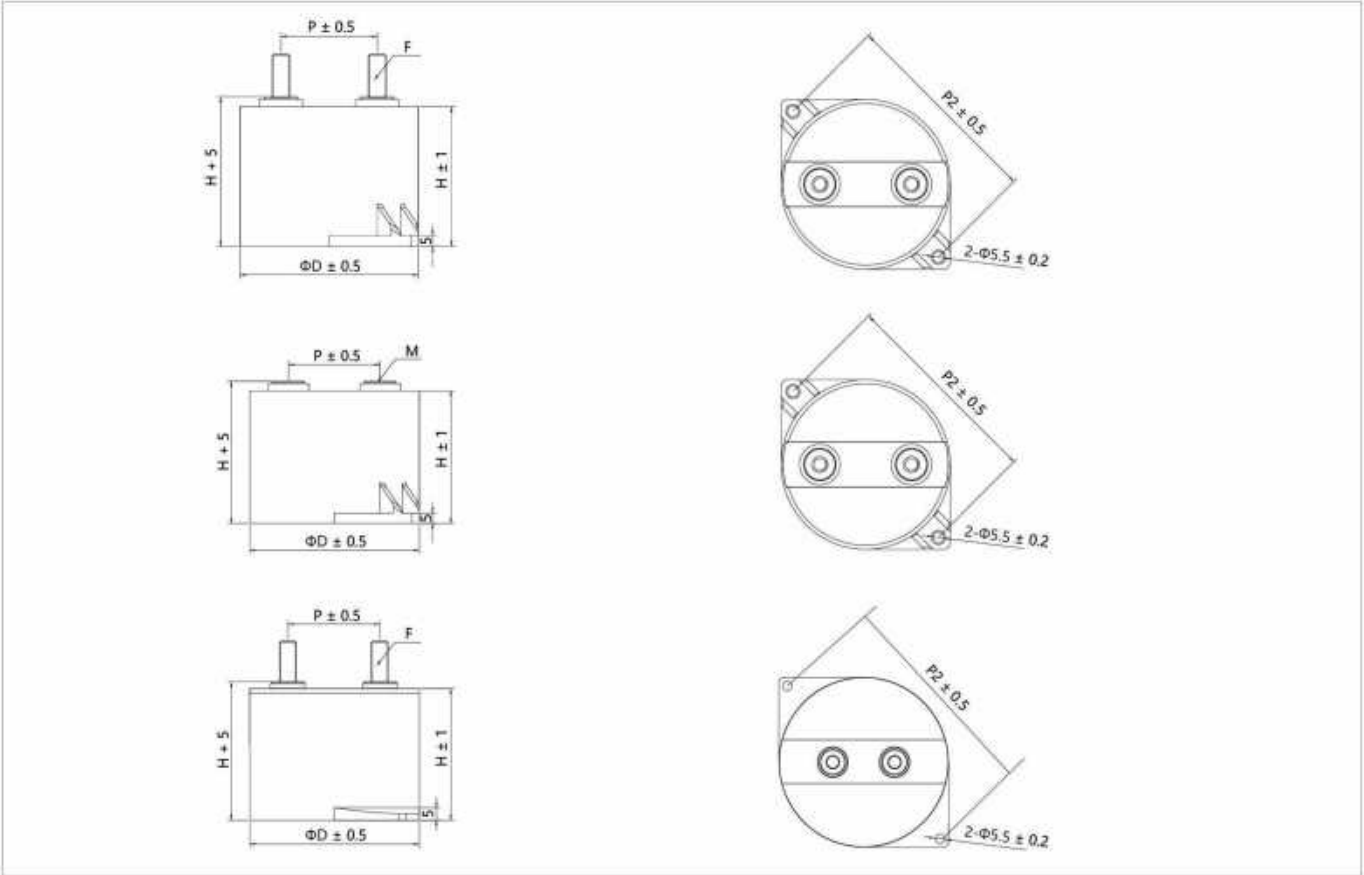
Standard Dimension

Φd (mm)	H (mm)	P (mm)	P2	F	M
84.5	40	45	101	M5×7	M8×20
84.5	51	45	101	M5×7	M8×20
84.5	65	45	101	M5×7	M8×20
84.5	76	45	101	M5×7	M8×20
115	64	45	133	M5×10	M8×20



01

The contour map



Technical data

Operating temperature range	Max. Operating temperature, Topmax: +105℃	
	Upper category temperature: +85℃	
	Lower category temperature: -40℃	
(C _N)/Capacitance range	50μF~380μF	
(U _N)/Rated voltage	450V.DC~1500V.DC	
Cap.tol	±5% (J) ; ±10% (K)	
Withstand voltage	Vt-t	1.5U _N DC/60s
	Vt-c	1000+2×U _N /√2 V.AC60s (min3000 V.AC)
Dissipation factor	tgδ≤0.002 f=1000Hz	
	tgδ ₀ ≤0.0002	
Insulation resistance	R _s ×C≥10000s (at 20℃ 100V.DC 60s)	



02

DC-Link DMJ-PC series

Metalized film capacitor

Technical data

Over voltage	1.1U _N (30% of on-load-dur.)
	1.15U _N (30min/day)
	1.2U _N (5min/day)
	1.3U _N (1min/day)
	1.5U _N (100ms every time 1000times during the lifetime)
Withstand strike current	For details, see the specification sheet
I _{rms}	For details, see the specification sheet
Flame retardation	UL94V-0
Maximum altitude	3500m
	Derating should be considered when the altitude is between 3500m -5500m. (For each increase of 1000m, voltage and current will be reduced by 10%)
Life expectancy	100000h (U _N ; $\theta_{\text{hotspot}} \leq 70^{\circ}\text{C}$)
Reference standard	IEC61071; IEC61881; IEC60068

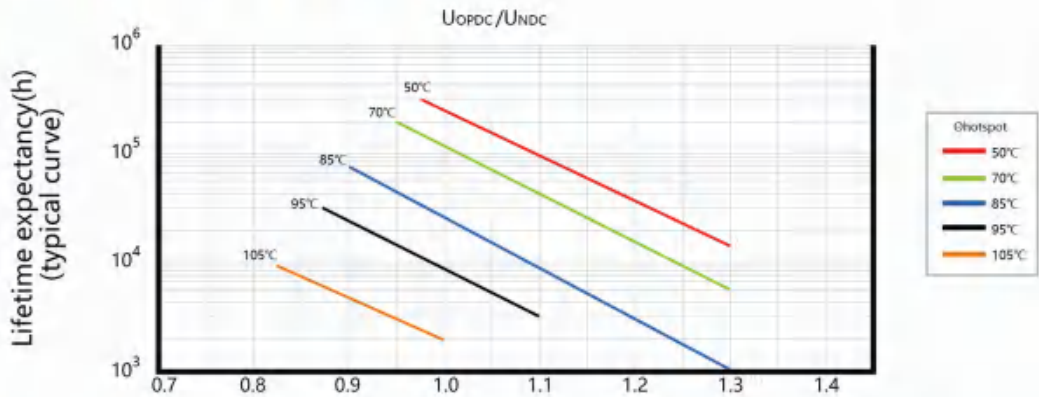
Part number system

Model			Capacitance			U _N (DC)				Cap. tol	Size	Lead	Internal feature code	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D	P	C	2	2	7	0	6	0	0	K	1	M	0	1
1	~	3	digits:	Model										
4	~	6	digits:	Nominal Capacity										
				e.g. 227=22×10 ⁷ pF=220μF										
7	~	10	digits:	U _N (DC)										
				e.g. 0600=600VDC										
			11	digits:	Capacitance Tolerance									
				±5% (J) ; ±10% (K)										
			12	digits:	Size									
				1:84.5×40 (p=45)										
				2:84.5×51 (p=45)										
				3:84.5×65 (p=45)										
				4:84.5×76 (p=45)										
				5:115×64 (p=60)										
			13	digits:	Lead									
				M:M8×20 Screw bolt										
				F:M5×7 Screw nut										
14	~	15	digits:	Internal feature code										



03

预期寿命曲线图 Life expectancy in the graph



规格表 Specification table

U _N (VDC)	C _N (μF)	ESR 10kHz (mΩ)	R _{th} (K/W)	I _{rms} @55°C (A)	dv/dt (V/us)	I _p (A)	尺寸/Dimension		L _s (nH)	Weight (kg)	Part number
							ΦD (mm)	H (mm)			
450	180	0.7	6	85	12	2160	84.5	40	25	0.35	DPC1870450*1***
	280	0.8	5	85	10	2800	84.5	51	32	0.4	DPC2870450*2***
	330	0.7	4.8	95	9	2970	84.5	65	40	0.5	DPC3370450*3***
	380	1	4.8	80	8	3040	84.5	65	40	0.5	DPC3870450*3***
	700	0.8	3.7	95	5	3500	115	64	40	0.9	DPC7070450*5***
600	110	0.8	6	82	20	2200	84.5	40	25	0.34	DPC1170600*1***
	180	0.9	5	85	13	2340	84.5	51	32	0.4	DPC1870600*2***
	220	0.7	4.8	95	11	2420	84.5	65	40	0.5	DPC2270600*3***
	280	1	4.8	80	9	2520	84.5	65	40	0.5	DPC2870600*3***
	470	0.9	3.7	95	8	3760	115	64	40	0.9	DPC4770600*5***
800	75	1	6	72	25	1875	84.5	40	25	0.35	DPC7560800*1***
	120	0.9	5	82	19	2280	84.5	51	32	0.4	DPC1270800*2***
	150	0.9	5	82	16	2400	84.5	51	32	0.4	DPC1570800*2***
	140	0.8	4.8	90	18	2520	84.5	65	40	0.5	DPC1470800*3***
	140	1.1	4.8	75	18	2520	84.5	65	40	0.5	DPC1470800*3***
900	220	1.1	4.8	75	11	2420	84.5	65	40	0.5	DPC2270800*3***
	320	0.9	3.7	90	12	3840	115	64	40	0.9	DPC3270800*5***
	100	0.9	5	82	19	2280	84.5	51	32	0.4	DPC1070900*2***
	150	0.9	5	82	16	2400	84.5	51	32	0.4	DPC1570900*2***
	140	0.8	4.8	90	18	2520	84.5	65	40	0.5	DPC1470900*3***
1100	140	1.1	4.8	75	18	2520	84.5	65	40	0.5	DPC1470900*3***
	60	1.5	6	58	30	1800	84.5	40	25	0.35	DPC6061100*1***
	90	1.5	5	64	25	2250	84.5	51	32	0.4	DPC9061100*2***
	120	1	4.8	78	20	2400	84.5	65	40	0.5	DPC1271100*3***
	140	1.5	4.8	65	18	2520	84.5	65	40	0.5	DPC1471100*3***
1300	150	1.5	4.6	65	18	2700	84.5	76	45	0.55	DPC1571100*4***
	190	1.7	4.6	61	16	3040	84.5	76	45	0.55	DPC1971100*4***
	240	1.2	3.7	82	14	3360	115	64	40	0.9	DPC2471100*5***
	70	1.4	5.3	63	26	1820	84.5	51	32	0.4	DPC7061300*2***
	100	1.8	5.0	57	19	1900	84.5	65	40	0.5	DPC1071300*3***
1400	130	1.9	4.6	58	16	2080	84.5	76	45	0.55	DPC1371300*4***
	56	1.5	5.3	61	28	1568	84.5	51	32	0.4	DPC5661400*2***
	86	1.8	5.0	57	20	1720	84.5	65	40	0.5	DPC8661400*3***
1500	110	1.9	4.6	58	16	1760	84.5	76	45	0.55	DPC1171400*4***
	50	1.6	5.3	59	30	1500	84.5	51	32	0.4	DPC5061500*2***
	76	1.9	5.0	56	22	1672	84.5	65	32	0.5	DPC7661500*3***
	95	2.1	4.6	55	18	2710	84.5	76	40	0.55	DPC9561500*4***

04

