

DC-Link 金属化薄膜电容器 DMJ-PC series

Metalized film capacitor

铜螺母/螺杆引出, 安装简单方便

Copper nut/screw leads, easy installation

耐压高, 具有自愈性

Resistance to high voltage, with self-healing

塑料外壳封装, 干式树脂灌注

Box-type, dry resin infusion

高纹路电流, 高dv/dt承受能力

High ripple current, high dv/dt withstand capability

容量大, 体积小

Large capacity, small size



应用

- 广泛应用于DC-link电路中, 作滤波储能用。
- 能替代电解电容, 性能更优, 寿命更长。
- 光伏逆变器, 风电变流器; 各种变频器及逆变电源; 纯电动及混合动力汽车; SVG, SVC等各类电能质量管理设备。

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.

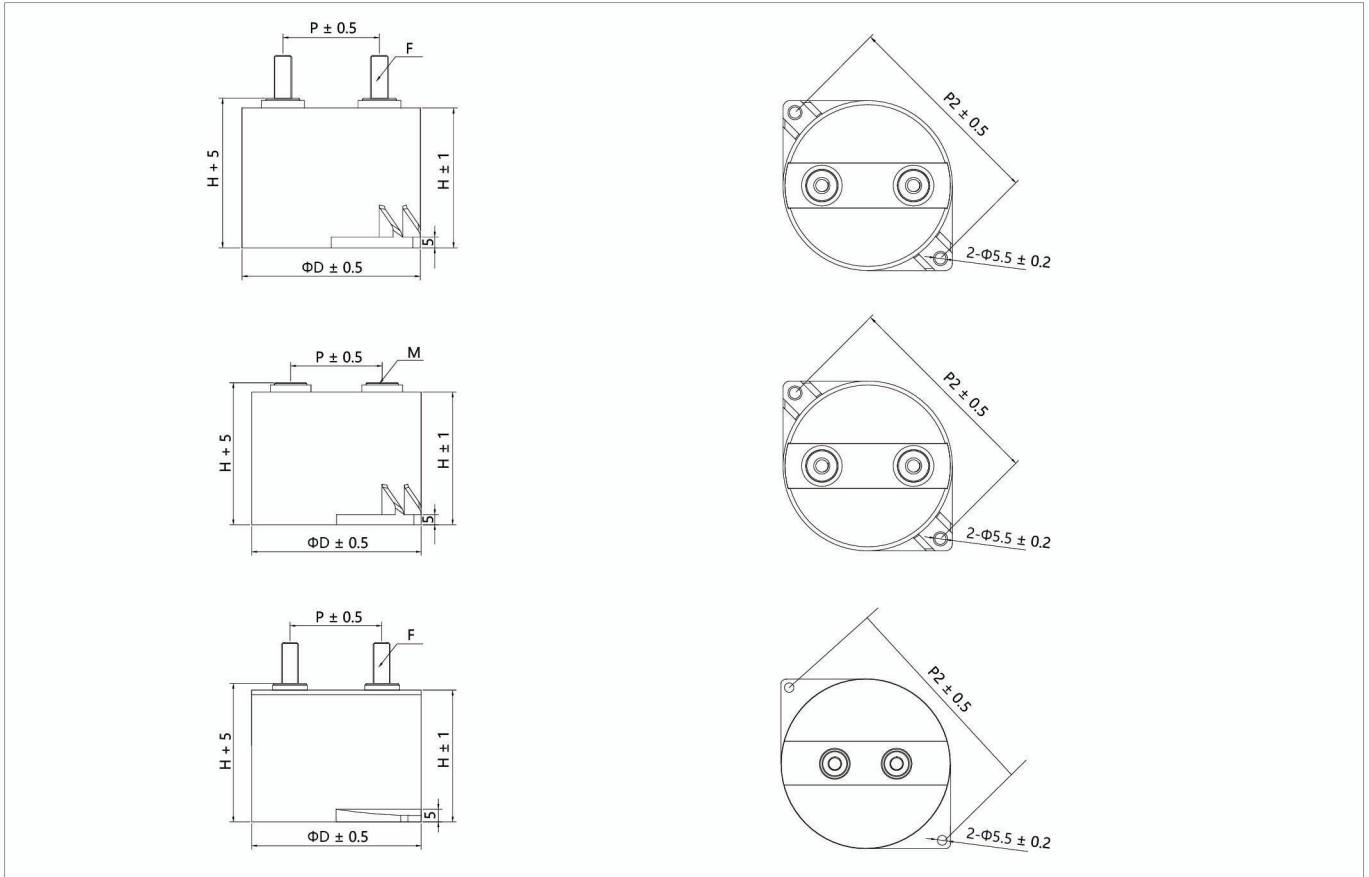
标准尺寸 Standard Dimension

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

外形图 The contour map



性能参数 Technical data

工作温度范围/Operating temperature range	Max.Operating temperature,Topmax: +105°C	
	Upper category temperature: +85°C	
	Lower category temperature: -40°C	
容量范围 (C _N)/Capacitance range	50μF~380μF	
额定电压 (U _N)/Rated voltage	450V.DC~1500V.DC	
容量偏差/Cap.tol	±5% (J) ; ±10% (K)	
耐电压/Withstand voltage	Vt-t	1.5U _N DC/60s
	Vt-c	1000+2×U _N /√2 V.AC60s (min3000 V.AC)
损耗角正切/Dissipation factor	tgδ≤0.002 f=1000Hz	
	介质损耗 tgδ ₀ ≤0.0002	
绝缘电阻/Insulation resistance	R _s ×C≥10000s (at 20°C 100V.DC 60s)	



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续上表

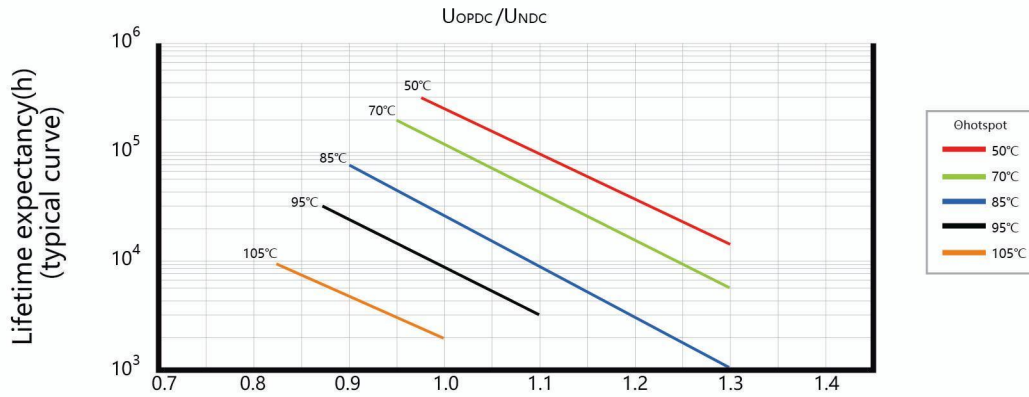
过电压/Over voltage	1.1U _N (30% of on-load-dur.)
	1.15U _N (30min/day)
	1.2U _N (5min/day)
	1.3U _N (1min/day)
	1.5U _N (100ms every time 1000times during the lifetime)
耐脉冲电流冲击/Withstand strike current	见规格表/For details, see the specification sheet
有效电流/I _{rms}	见规格表/For details, see the specification sheet
阻燃性/Flame retardation	UL94V-0
最高使用海拔高度/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%)
预期寿命/Life expectancy	100000h (U _N ; θ _{hotspot} ≤70°C)
引用标准/Reference standard	IEC61071; IEC61881; IEC60068

产品编码说明 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	位: 型号代码/Model											
4	~	6	位: 标称容量/Nominal Capacity											
			e.g. 227=22×10 ⁷ pF=220μF											
7	~	10	位: 额定电压 (直流) / U _N (DC)											
			e.g. 0600=600VDC											
			11	位: 容量偏差等级/Capacitance Tolerance										
			±5% (J) ; ±10% (K)											
			12	位: 尺寸代码/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	位: 引出形式/Lead										
			M:M8×20螺栓引出/Screw bolt											
			F:M5×7螺母引出/Screw nut											
14	~	15	位: 内部特征码/Internal feature code											



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***
	220	1.1	4.8	75	11	2420	84.5	65	40	0.5	DPC2270800*3***
900	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***
	140	1.1	4.8	75	18	2520	84.5	65	40	0.5	DPC1470900*3***
1100	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***
	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***
1300	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***

