



MDP(x)



- ◆ PCB用DC-LINK电容器
- ◆ 金属化聚丙烯膜结构
- ◆ 塑壳封装，环氧树脂填充 (UL94 V-0)
- ◆ 优良的电气性能

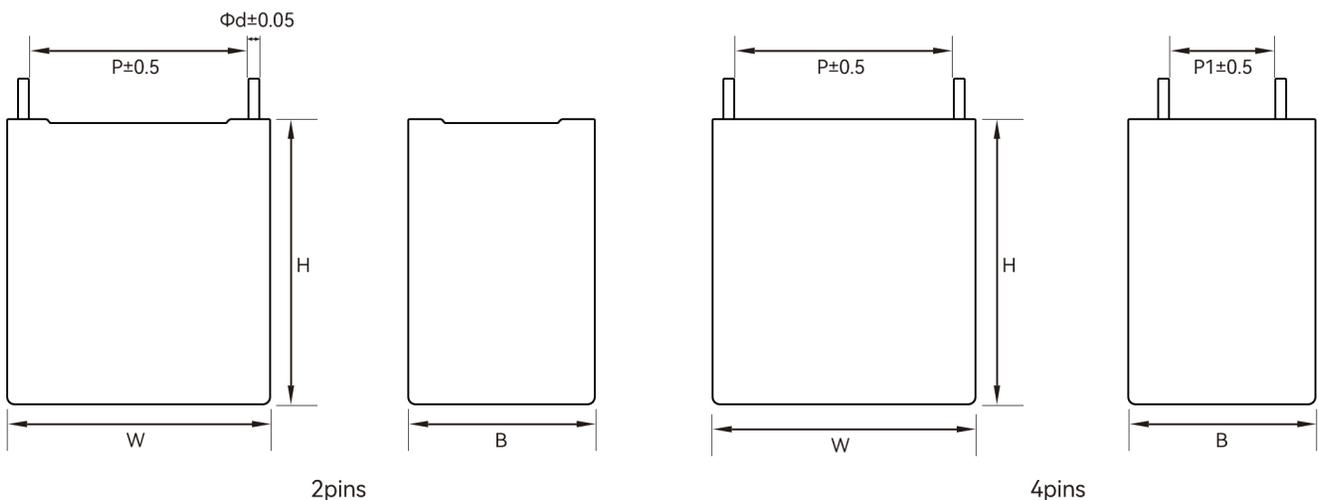
◆ 应用领域

- ◇ 太阳能逆变器 ◇ 不间断电源 ◇ 军工、高端电源 ◇ 车载充电机、充电桩

■ 主要技术参数

项目	特性
引用标准	GB/T 17702 (IEC 61071)
额定电压	500Vd.c.~1500Vd.c.
容量范围	5 μ F~240 μ F
气候类别	40/85/56,40/105/56
工作温度范围	-40°C~105°C (85°C~105°C: 温度每升高1度额定电压降低1.35%)
容量偏差	$\pm 5\%$ (J), $\pm 10\%$ (K)
耐电压	1.5U _N (10s, 20°C \pm 5°C)
绝缘电阻	$\geq 10000s$ (20°C, 100Vd.c., 60s)
自感 (L _s)	< 1nH/mm 引线间距
介质损耗角正切	0.0002
最大峰值电流 \hat{I} (A)	$\hat{I} = C \times dv/dt$
不可重复峰值电流	1.4 \hat{I} (寿命期间1000次)
过电压	1.1U _N (有载持续时间的30%/d)
	1.15 U _N (30min/d)
	1.2 U _N (5min/d)
	1.3 U _N (1min/d)
	1.5U _N (在本电容器的寿命期间, 允许有1000次大小等于1.5U _N 且持续30ms的过压)
预期寿命	100000h@U _N , 70°C, $\Theta_{hs}=85^\circ\text{C}$
失效率	$\leq 300\text{FIT}@U_N, 70^\circ\text{C}, \Theta_{hs}=85^\circ\text{C}$

■ 产品尺寸图



备注：产品外形尺寸以mm为单位，具体尺寸详见《产品尺寸表》。



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■ 标准品一览表

额定电压	C _N (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	tanδ(×10 ⁻⁴)		ESR@ 10kHz (mΩ)	I _{max} (A)	产品编码
									1kHz	10kHz			
500Vdc /85°C	30	32	37	22	27.5	10.2	0.8	50	10	100	6.2	14.5	MDP501306K032037LRY
	40	42	40	20	37.5	10.2	1.0	20	20	190	7.7	13.9	MDP501406K042040LSY
	50	42	37	28	37.5	10.2	1.0	20	20	190	6.6	17.3	MDP501506K042037LSY
	55	42	44	24	37.5	10.2	1.0	20	20	190	6.2	19.1	MDP501556K042044LSY
	70	42	45	30	37.5	20.3	1.2	20	20	190	5.3	21.8	MDP501706K042045LSR
	80	42	46	35	37.5	20.3	1.2	20	20	190	5.0	22.2	MDP501806K042046LSR
	90	42	50	35	37.5	20.3	1.2	20	20	190	4.7	25.0	MDP501906K042050LSR
	120	42	55	40	37.5	20.3	1.2	20	20	190	4.0	29.1	MDP501127K042055LSR
	150	42	62	45	37.5	20.3	1.2	20	20	190	3.6	36.4	MDP501157K042062LSR
	100	57.5	45	30	52.5	20.3	1.2	12	33	320	5.9	15.5	MDP501107K057045LWR
	130	57.5	50	35	52.5	20.3	1.2	12	33	320	4.8	20.1	MDP501137K057050LWR
	150	57.5	56	35	52.5	20.3	1.2	12	33	320	3.3	23.2	MDP501157K057056LWR
	180	57.5	64.5	35	52.5	20.3	1.2	12	33	320	2.7	27.9	MDP501187K057064LWR
	190	57.5	55	45	52.5	20.3	1.2	12	33	320	2.6	29.4	MDP501197K057055LWR
	200	57.5	70	35	52.5	20.3	1.2	12	33	320	2.4	31.0	MDP501207K057070LWR
220	57.5	65	45	52.5	20.3	1.2	12	33	320	2.2	34.0	MDP501227K057065LWR	
240	57.5	80	35	52.5	20.3	1.2	12	33	320	2.0	34.9	MDP501247K057080LWR	
600Vdc /85°C	25	32	37	22	27.5	10.2	0.8	50	10	100	6.2	12.4	MDP601256K032037LRY
	35	42	40	20	37.5	10.2	1.0	20	20	190	7.1	13.0	MDP601356K042040LSY
	40	42	37	28	37.5	10.2	1.0	20	20	190	6.3	14.2	MDP601406K042037LSY
	45	42	44	24	37.5	10.2	1.0	20	20	190	5.7	14.7	MDP601456K042044LSY
	60	42	45	30	37.5	20.3	1.2	20	20	190	4.5	17.1	MDP601606K042045LSR
	70	42	46	35	37.5	20.3	1.2	20	20	190	4.2	18.4	MDP601706K042046LSR
	80	42	50	35	37.5	20.3	1.2	20	20	190	3.8	21.0	MDP601806K042050LSR
	100	42	55	40	37.5	20.3	1.2	20	20	190	3.3	23.5	MDP601107K042055LSR
	130	42	62	45	37.5	20.3	1.2	20	20	190	2.7	29.8	MDP601137K042062LSR
	85	57.5	45	30	52.5	20.3	1.2	12	33	320	5.9	14.7	MDP601856K057045LWR
	110	57.5	50	35	52.5	20.3	1.2	12	33	320	4.8	19.0	MDP601117K057050LWR
	130	57.5	56	35	52.5	20.3	1.2	12	33	320	3.7	22.4	MDP601137K057056LWR
	160	57.5	64.5	35	52.5	20.3	1.2	12	33	320	3.0	27.0	MDP601167K057064LWR
	160	57.5	55	45	52.5	20.3	1.2	12	33	320	3.0	27.0	MDP601167K057055LWR
	170	57.5	70	35	52.5	20.3	1.2	12	33	320	2.7	28.7	MDP601177K057070LWR
200	57.5	65	45	52.5	20.3	1.2	12	33	320	2.3	33.8	MDP601207K057065LWR	
210	57.5	80	35	52.5	20.3	1.2	12	33	320	2.2	35.0	MDP601217K057080LWR	
800Vdc /85°C	18	32	37	22	27.5	10.2	0.8	50	10	100	7.2	12.4	MDP801186K032037LRY
	22	42	40	20	37.5	10.2	1.0	20	20	190	9.4	12.5	MDP801226K042040LSY
	30	42	37	28	37.5	10.2	1.0	20	20	190	7.3	17.1	MDP801306K042037LSY
	30	42	44	24	37.5	10.2	1.0	20	20	190	7.3	17.1	MDP801306K042044LSY
	40	42	45	30	37.5	20.3	1.2	20	20	190	5.8	20.0	MDP801406K042045LSR
	45	42	46	35	37.5	20.3	1.2	20	20	190	5.6	22.5	MDP801456K042046LSR
	55	42	50	35	37.5	20.3	1.2	20	20	190	4.9	27.5	MDP801556K042050LSR
	70	42	55	40	37.5	20.3	1.2	20	20	190	4.1	35.0	MDP801706K042055LSR
90	42	62	45	37.5	20.3	1.2	20	20	190	3.6	45.1	MDP801906K042062LSR	



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■ 标准品一览表

额定电压	CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	产品编码
									1kHz	10kHz			
800Vdc /85°C	60	57.5	45	30	52.5	20.3	1.2	12	33	320	7.3	16.7	MDP801606K057045LWR
	80	57.5	50	35	52.5	20.3	1.2	12	33	320	5.7	22.2	MDP801806K057050LWR
	90	57.5	56	35	52.5	20.3	1.2	12	33	320	5.2	25.0	MDP801906K057056LWR
	110	57.5	64.5	35	52.5	20.3	1.2	12	33	320	4.4	30.6	MDP801117K057064LWR
	110	57.5	55	45	52.5	20.3	1.2	12	33	320	4.4	30.6	MDP801117K057055LWR
	120	57.5	70	35	52.5	20.3	1.2	12	33	320	4.1	33.3	MDP801127K057070LWR
	130	57.5	65	45	52.5	20.3	1.2	12	33	320	3.9	36.1	MDP801137K057065LWR
	140	57.5	80	35	52.5	20.3	1.2	12	33	320	3.7	36.6	MDP801147K057080LWR
900Vdc /85°C	14	32	37	22	27.5	10.2	0.8	50	10	100	7.9	14.9	MDP901146K032037LRY
	20	42	40	20	37.5	10.2	1.0	20	20	190	9.2	12.6	MDP901206K042040LSY
	25	42	37	28	37.5	10.2	1.0	20	20	190	7.7	15.7	MDP901256K042037LSY
	25	42	44	24	37.5	10.2	1.0	20	20	190	7.7	15.7	MDP901256K042044LSY
	35	42	45	30	37.5	20.3	1.2	20	20	190	5.9	22.0	MDP901356K042045LSR
	40	42	46	35	37.5	20.3	1.2	20	20	190	5.6	25.2	MDP901406K042046LSR
	45	42	50	35	37.5	20.3	1.2	20	20	190	5.2	28.3	MDP901456K042050LSR
	60	42	55	40	37.5	20.3	1.2	20	20	190	4.3	37.8	MDP901606K042055LSR
	75	42	62	45	37.5	20.3	1.2	20	20	190	3.7	47.2	MDP901756K042062LSR
	50	57.5	45	30	52.5	20.3	1.2	12	33	320	7.8	15.3	MDP901506K057045LWR
	65	57.5	50	35	52.5	20.3	1.2	12	33	320	6.2	19.9	MDP901656K057050LWR
	75	57.5	56	35	52.5	20.3	1.2	12	33	320	5.5	22.9	MDP901756K057056LWR
	90	57.5	64.5	35	52.5	20.3	1.2	12	33	320	4.8	27.5	MDP901906K057064LWR
	90	57.5	55	45	52.5	20.3	1.2	12	33	320	4.8	27.5	MDP901906K057055LWR
	100	57.5	70	35	52.5	20.3	1.2	12	33	320	4.5	28.3	MDP901107K057070LWR
	110	57.5	65	45	52.5	20.3	1.2	12	33	320	4.1	31.6	MDP901117K057065LWR
120	57.5	80	35	52.5	20.3	1.2	12	33	320	3.8	33.0	MDP901127K057080LWR	
1000Vdc /85°C	11	32	37	22	27.5	10.2	0.8	50	10	100	9.2	13.3	MDP102116K032037LRY
	15	42	40	20	37.5	10.2	1.0	20	20	190	11.1	10.7	MDP102156K042040LSY
	20	42	37	28	37.5	10.2	1.0	20	20	190	9.0	14.0	MDP102206K042037LSY
	20	42	44	24	37.5	10.2	1.0	20	20	190	9.0	14.0	MDP102206K042044LSY
	25	42	45	30	37.5	20.3	1.2	20	20	190	7.5	17.8	MDP102256K042045LSR
	30	42	46	35	37.5	20.3	1.2	20	20	190	6.9	21.4	MDP102306K042046LSR
	35	42	50	35	37.5	20.3	1.2	20	20	190	6.2	24.9	MDP102356K042050LSR
	45	42	55	40	37.5	20.3	1.2	20	20	190	5.2	32.1	MDP102456K042055LSR
	55	42	62	45	37.5	20.3	1.2	20	20	190	4.7	39.2	MDP102556K042062LSR
	40	57.5	45	30	52.5	20.3	1.2	12	33	320	9.0	13.8	MDP102406K057045LWR
	50	57.5	50	35	52.5	20.3	1.2	12	33	320	7.2	17.3	MDP102506K057050LWR
	60	57.5	56	35	52.5	20.3	1.2	12	33	320	6.2	20.7	MDP102606K057056LWR
	70	57.5	64.5	35	52.5	20.3	1.2	12	33	320	5.5	24.2	MDP102706K057064LWR
	70	57.5	55	45	52.5	20.3	1.2	12	33	320	5.5	24.2	MDP102706K057055LWR
	80	57.5	70	35	52.5	20.3	1.2	12	33	320	5.0	26.3	MDP102806K057070LWR
	90	57.5	65	45	52.5	20.3	1.2	12	33	320	4.5	29.6	MDP102906K057065LWR
90	57.5	80	35	52.5	20.3	1.2	12	33	320	4.5	29.6	MDP102906K057080LWR	
1100Vdc /85°C	8	32	37	22	27.5	10.2	0.8	50	10	100	10.7	10.5	MDP112086K032037LRY
	12	42	40	20	37.5	10.2	1.0	20	20	190	12.4	9.7	MDP112126K042040LSY



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■ 标准品一览表

额定电压	C _N (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	tanδ(×10 ⁻⁴)		ESR@ 10kHz (mΩ)	I _{max} (A)	产品编码
									1kHz	10kHz			
1100Vdc /85°C	15	42	37	28	37.5	10.2	1.0	20	20	190	10.3	12.3	MDP112156K042037LSY
	15	42	44	24	37.5	10.2	1.0	20	20	190	10.7	11.9	MDP112156K042044LSY
	20	42	45	30	37.5	20.3	1.2	20	20	190	8.3	16.4	MDP112206K042045LSR
	25	42	46	35	37.5	20.3	1.2	20	20	190	7.0	20.5	MDP112256K042046LSR
	28	42	50	35	37.5	20.3	1.2	20	20	190	6.4	23.0	MDP112286K042050LSR
	35	42	55	40	37.5	20.3	1.2	20	20	190	5.6	28.8	MDP112356K042055LSR
	45	42	62	45	37.5	20.3	1.2	20	20	190	4.8	37.0	MDP112456K042062LSR
	30	57.5	45	30	52.5	20.3	1.2	12	33	320	10.7	11.8	MDP112306K057045LWR
	40	57.5	50	35	52.5	20.3	1.2	12	33	320	8.2	15.4	MDP112406K057050LWR
	45	57.5	56	35	52.5	20.3	1.2	12	33	320	7.3	17.8	MDP112456K057056LWR
	55	57.5	64.5	35	52.5	20.3	1.2	12	33	320	6.2	21.7	MDP112556K057064LWR
	55	57.5	55	45	52.5	20.3	1.2	12	33	320	6.2	21.7	MDP112556K057055LWR
	60	57.5	70	35	52.5	20.3	1.2	12	33	320	5.9	23.7	MDP112606K057070LWR
	70	57.5	65	45	52.5	20.3	1.2	12	33	320	4.9	24.9	MDP112706K057065LWR
	70	57.5	65	45	52.5	20.3	1.2	12	33	320	4.9	24.9	MDP112706K057065LWR
70	57.5	80	35	52.5	20.3	1.2	12	33	320	4.9	24.9	MDP112706K057080LWR	
1200Vdc /85°C	7	32	37	22	27.5	10.2	0.8	50	10	100	10.7	12.1	MDP122076K032037LRY
	10	42	40	20	37.5	10.2	1.0	20	20	190	14.4	7.9	MDP122106K042040LSY
	12	42	37	28	37.5	10.2	1.0	20	20	190	12.3	9.8	MDP122126K042037LSY
	12	42	44	24	37.5	10.2	1.0	20	20	190	12.3	9.8	MDP122126K042044LSY
	15	42	45	30	37.5	20.3	1.2	20	20	190	10.3	11.3	MDP122156K042045LSR
	20	42	46	35	37.5	20.3	1.2	20	20	190	7.6	14.5	MDP122206K042046LSR
	22	42	50	35	37.5	20.3	1.2	20	20	190	7.1	16.0	MDP122226K042050LSR
	28	42	55	40	37.5	20.3	1.2	20	20	190	6.1	19.9	MDP122286K042055LSR
	35	42	62	45	37.5	20.3	1.2	20	20	190	5.1	21.4	MDP122356K042062LSR
	25	57.5	45	30	52.5	20.3	1.2	12	33	320	12.0	9.8	MDP122256K057045LWR
	35	57.5	50	35	52.5	20.3	1.2	12	33	320	9.0	13.4	MDP122356K057050LWR
	40	57.5	56	35	52.5	20.3	1.2	12	33	320	7.9	13.9	MDP122406K057056LWR
	45	57.5	64.5	35	52.5	20.3	1.2	12	33	320	7.3	16.7	MDP122456K057064LWR
	50	57.5	55	45	52.5	20.3	1.2	12	33	320	6.9	16.9	MDP122506K057055LWR
	55	57.5	70	35	52.5	20.3	1.2	12	33	320	6.5	18.2	MDP122556K057070LWR
60	57.5	65	45	52.5	20.3	1.2	12	33	320	5.9	19.6	MDP122606K057065LWR	
60	57.5	80	35	52.5	20.3	1.2	12	33	320	5.9	19.6	MDP122606K057080LWR	