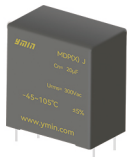




MDP(X)

- ◆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



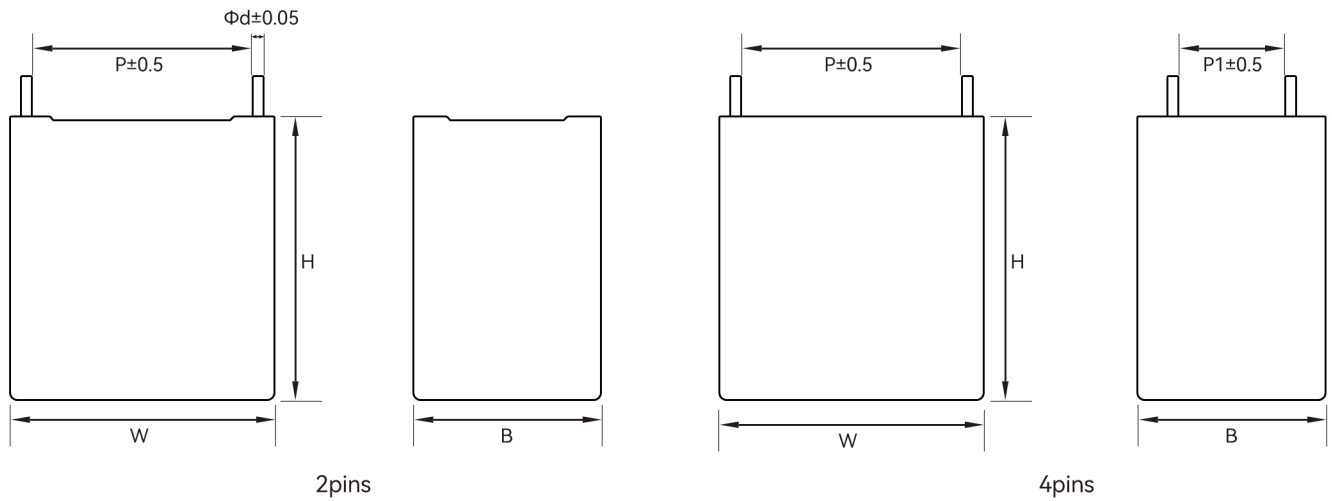
◆ 应用领域

◇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	5μF~240μF
气候类别	40/85/56,40/105/56
工作温度范围	-40℃~105℃ (85℃~105℃: 温度每升高1度额定电压降低1.35%)
容量偏差	±5%(J),±10%(K)
耐电压	1.5U _N (10s,20℃±5℃)
绝缘电阻	≥10000s (20℃,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℃,Θ _{hs} =85℃
失效率	≤300FIT@U _N ,70℃,Θ _{hs} =85℃

■ 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》。



MDP(X)

■ 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)	Ĵ (A)	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	1100	10	100	6.2	14.5	MDP501306*032037LRY
	40	42	40	20	37.5	10.2	1.0	20	600	20	190	7.7	13.9	MDP501406*042040LSY
	50	42	37	28	37.5	10.2	1.0	20	800	20	190	6.6	17.3	MDP501506*042037LSY
	55	42	44	24	37.5	10.2	1.0	20	800	20	190	6.2	19.1	MDP501556*042044LSY
	70	42	45	30	37.5	20.3	1.2	20	1100	20	190	5.3	21.8	MDP501706*042045LSR
	80	42	46	35	37.5	20.3	1.2	20	1300	20	190	5.0	22.2	MDP501806*042046LSR
	90	42	50	35	37.5	20.3	1.2	20	1400	20	190	4.7	25.0	MDP501906*042050LSR
	120	42	55	40	37.5	20.3	1.2	20	1800	20	190	4.0	29.1	MDP501127*042055LSR
	150	42	62	45	37.5	20.3	1.2	20	2400	20	190	3.6	36.4	MDP501157*042062LSR
	100	57.5	45	30	52.5	20.3	1.2	12	960	33	320	5.9	15.5	MDP501107*057045LWR
	130	57.5	50	35	52.5	20.3	1.2	12	1200	33	320	4.8	20.1	MDP501137*057050LWR
	150	57.5	56	35	52.5	20.3	1.2	12	1440	33	320	3.3	23.2	MDP501157*057056LWR
	180	57.5	64.5	35	52.5	20.3	1.2	12	1800	33	320	2.7	27.9	MDP501187*057064LWR
	190	57.5	55	45	52.5	20.3	1.2	12	1800	33	320	2.6	29.4	MDP501197*057055LWR
	200	57.5	70	35	52.5	20.3	1.2	12	1920	33	320	2.4	31.0	MDP501207*057070LWR
	220	57.5	65	45	52.5	20.3	1.2	12	2280	33	320	2.2	34.0	MDP501227*057065LWR
	240	57.5	80	35	52.5	20.3	1.2	12	2280	33	320	2.0	34.9	MDP501247*057080LWR
600Vdc /85°C	25	32	37	22	27.5	10.2	0.8	50	1250	10	100	6.2	12.4	MDP601256*032037LRY
	35	42	40	20	37.5	10.2	1.0	20	700	20	190	7.1	13.0	MDP601356*042040LSY
	40	42	37	28	37.5	10.2	1.0	20	800	20	190	6.3	14.2	MDP601406*042037LSY
	45	42	44	24	37.5	10.2	1.0	20	900	20	190	5.7	14.7	MDP601456*042044LSY
	60	42	45	30	37.5	20.3	1.2	20	1200	20	190	4.5	17.1	MDP601606*042045LSR
	70	42	46	35	37.5	20.3	1.2	20	1400	20	190	4.2	18.4	MDP601706*042046LSR
	80	42	50	35	37.5	20.3	1.2	20	1600	20	190	3.8	21.0	MDP601806*042050LSR
	100	42	55	40	37.5	20.3	1.2	20	2000	20	190	3.3	23.5	MDP601107*042055LSR
	130	42	62	45	37.5	20.3	1.2	20	2600	20	190	2.7	29.8	MDP601137*042062LSR
	85	57.5	45	30	52.5	20.3	1.2	12	1020	33	320	5.9	14.7	MDP601856*057045LWR
	110	57.5	50	35	52.5	20.3	1.2	12	1320	33	320	4.8	19.0	MDP601117*057050LWR
	130	57.5	56	35	52.5	20.3	1.2	12	1560	33	320	3.7	22.4	MDP601137*057056LWR
	160	57.5	64.5	35	52.5	20.3	1.2	12	1920	33	320	3.0	27.0	MDP601167*057064LWR
	160	57.5	55	45	52.5	20.3	1.2	12	1920	33	320	3.0	27.0	MDP601167*057055LWR
	170	57.5	70	35	52.5	20.3	1.2	12	2040	33	320	2.7	28.7	MDP601177*057070LWR
	200	57.5	65	45	52.5	20.3	1.2	12	2400	33	320	2.3	33.8	MDP601207*057065LWR
	210	57.5	80	35	52.5	20.3	1.2	12	2520	33	320	2.2	35.0	MDP601217*057080LWR
800Vdc /85°C	18	32	37	22	27.5	10.2	0.8	50	900	10	100	7.2	12.4	MDP801186*032037LRY
	22	42	40	20	37.5	10.2	1.0	20	440	20	190	9.4	12.5	MDP801226*042040LSY
	30	42	37	28	37.5	10.2	1.0	20	600	20	190	7.3	17.1	MDP801306*042037LSY
	30	42	44	24	37.5	10.2	1.0	20	600	20	190	7.3	17.1	MDP801306*042044LSY
	40	42	45	30	37.5	20.3	1.2	20	800	20	190	5.8	20.0	MDP801406*042045LSR
	45	42	46	35	37.5	20.3	1.2	20	900	20	190	5.6	22.5	MDP801456*042046LSR
	55	42	50	35	37.5	20.3	1.2	20	1100	20	190	4.9	27.5	MDP801556*042050LSR
	70	42	55	40	37.5	20.3	1.2	20	1400	20	190	4.1	35.0	MDP801706*042055LSR
	90	42	62	45	37.5	20.3	1.2	20	1800	20	190	3.6	45.1	MDP801906*042062LSR

备注：“*”表示产品的容量偏差，J=±5%，K=±10%。



MDP(X)

■ 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)	Ĵ (A)	tanδ(×10 ⁻⁴)		ESR@ 10kHz (mΩ)	I _{max} (A)	产品编码
										1kHz	10kHz			
800Vdc /85℃	60	57.5	45	30	52.5	20.3	1.2	12	720	33	320	7.3	16.7	MDP801606*057045LWR
	80	57.5	50	35	52.5	20.3	1.2	12	960	33	320	5.7	22.2	MDP801806*057050LWR
	90	57.5	56	35	52.5	20.3	1.2	12	1080	33	320	5.2	25.0	MDP801906*057056LWR
	110	57.5	64.5	35	52.5	20.3	1.2	12	1320	33	320	4.4	30.6	MDP801117*057064LWR
	110	57.5	55	45	52.5	20.3	1.2	12	1320	33	320	4.4	30.6	MDP801117*057055LWR
	120	57.5	70	35	52.5	20.3	1.2	12	1440	33	320	4.1	33.3	MDP801127*057070LWR
	130	57.5	65	45	52.5	20.3	1.2	12	1560	33	320	3.9	36.1	MDP801137*057065LWR
	140	57.5	80	35	52.5	20.3	1.2	12	1680	33	320	3.7	36.6	MDP801147*057080LWR
900Vdc /85℃	14	32	37	22	27.5	10.2	0.8	50	700	10	100	7.9	14.9	MDP901146*032037LRY
	20	42	40	20	37.5	10.2	1.0	20	400	20	190	9.2	12.6	MDP901206*042040LSY
	25	42	37	28	37.5	10.2	1.0	20	500	20	190	7.7	15.7	MDP901256*042037LSY
	25	42	44	24	37.5	10.2	1.0	20	500	20	190	7.7	15.7	MDP901256*042044LSY
	35	42	45	30	37.5	20.3	1.2	20	700	20	190	5.9	22.0	MDP901356*042045LSR
	40	42	46	35	37.5	20.3	1.2	20	800	20	190	5.6	25.2	MDP901406*042046LSR
	45	42	50	35	37.5	20.3	1.2	20	900	20	190	5.2	28.3	MDP901456*042050LSR
	60	42	55	40	37.5	20.3	1.2	20	1200	20	190	4.3	37.8	MDP901606*042055LSR
	75	42	62	45	37.5	20.3	1.2	20	1500	20	190	3.7	47.2	MDP901756*042062LSR
	50	57.5	45	30	52.5	20.3	1.2	12	600	33	320	7.8	15.3	MDP901506*057045LWR
	65	57.5	50	35	52.5	20.3	1.2	12	780	33	320	6.2	19.9	MDP901656*057050LWR
	75	57.5	56	35	52.5	20.3	1.2	12	900	33	320	5.5	22.9	MDP901756*057056LWR
	90	57.5	64.5	35	52.5	20.3	1.2	12	1080	33	320	4.8	27.5	MDP901906*057064LWR
	90	57.5	55	45	52.5	20.3	1.2	12	1080	33	320	4.8	27.5	MDP901906*057055LWR
	100	57.5	70	35	52.5	20.3	1.2	12	1200	33	320	4.5	28.3	MDP901107*057070LWR
	110	57.5	65	45	52.5	20.3	1.2	12	1320	33	320	4.1	31.6	MDP901117*057065LWR
	120	57.5	80	35	52.5	20.3	1.2	12	1440	33	320	3.8	33.0	MDP901127*057080LWR
1000 Vdc /85℃	11	32	37	22	27.5	10.2	0.8	50	550	10	100	9.2	13.3	MDP102116*032037LRY
	15	42	40	20	37.5	10.2	1.0	20	300	20	190	11.1	10.7	MDP102156*042040LSY
	20	42	37	28	37.5	10.2	1.0	20	400	20	190	9.0	14.0	MDP102206*042037LSY
	20	42	44	24	37.5	10.2	1.0	20	400	20	190	9.0	14.0	MDP102206*042044LSY
	25	42	45	30	37.5	20.3	1.2	20	500	20	190	7.5	17.8	MDP102256*042045LSR
	30	42	46	35	37.5	20.3	1.2	20	600	20	190	6.9	21.4	MDP102306*042046LSR
	35	42	50	35	37.5	20.3	1.2	20	700	20	190	6.2	24.9	MDP102356*042050LSR
	45	42	55	40	37.5	20.3	1.2	20	900	20	190	5.2	32.1	MDP102456*042055LSR
	55	42	62	45	37.5	20.3	1.2	20	1100	20	190	4.7	39.2	MDP102556*042062LSR
	40	57.5	45	30	52.5	20.3	1.2	12	480	33	320	9.0	13.8	MDP102406*057045LWR
	50	57.5	50	35	52.5	20.3	1.2	12	600	33	320	7.2	17.3	MDP102506*057050LWR
	60	57.5	56	35	52.5	20.3	1.2	12	720	33	320	6.2	20.7	MDP102606*057056LWR
	70	57.5	64.5	35	52.5	20.3	1.2	12	840	33	320	5.5	24.2	MDP102706*057064LWR
	70	57.5	55	45	52.5	20.3	1.2	12	840	33	320	5.5	24.2	MDP102706*057055LWR
	80	57.5	70	35	52.5	20.3	1.2	12	960	33	320	5.0	26.3	MDP102806*057070LWR
	90	57.5	65	45	52.5	20.3	1.2	12	1080	33	320	4.5	29.6	MDP102906*057065LWR
	90	57.5	80	35	52.5	20.3	1.2	12	1080	33	320	4.5	29.6	MDP102906*057080LWR

备注：“*”表示产品的容量偏差，J=±5%，K=±10%。



MDP(X)

■ 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)	Ĵ (A)	tanδ(×10 ⁻⁴)		ESR@ 10kHz (mΩ)	I _{max} (A)	产品编码
										1kHz	10kHz			
1100 Vdc /85°C	8	32	37	22	27.5	10.2	0.8	50	400	10	100	10.7	10.5	MDP112086*032037LRY
	12	42	40	20	37.5	10.2	1.0	20	240	20	190	12.4	9.7	MDP112126*042040LSY
	15	42	37	28	37.5	10.2	1.0	20	300	20	190	10.3	12.3	MDP112156*042037LSY
	15	42	44	24	37.5	10.2	1.0	20	300	20	190	10.7	11.9	MDP112156*042044LSY
	20	42	45	30	37.5	20.3	1.2	20	400	20	190	8.3	16.4	MDP112206*042045LSR
	25	42	46	35	37.5	20.3	1.2	20	500	20	190	7.0	20.5	MDP112256*042046LSR
	28	42	50	35	37.5	20.3	1.2	20	560	20	190	6.4	23.0	MDP112286*042050LSR
	35	42	55	40	37.5	20.3	1.2	20	700	20	190	5.6	28.8	MDP112356*042055LSR
	45	42	62	45	37.5	20.3	1.2	20	900	20	190	4.8	37.0	MDP112456*042062LSR
	30	57.5	45	30	52.5	20.3	1.2	12	360	33	320	10.7	11.8	MDP112306*057045LWR
	40	57.5	50	35	52.5	20.3	1.2	12	480	33	320	8.2	15.4	MDP112406*057050LWR
	45	57.5	56	35	52.5	20.3	1.2	12	540	33	320	7.3	17.8	MDP112456*057056LWR
	55	57.5	64.5	35	52.5	20.3	1.2	12	660	33	320	6.2	21.7	MDP112556*057064LWR
	55	57.5	55	45	52.5	20.3	1.2	12	660	33	320	6.2	21.7	MDP112556*057055LWR
	60	57.5	70	35	52.5	20.3	1.2	12	720	33	320	5.9	23.7	MDP112606*057070LWR
	70	57.5	65	45	52.5	20.3	1.2	12	840	33	320	4.9	24.9	MDP112706*057065LWR
	70	57.5	80	35	52.5	20.3	1.2	12	840	33	320	4.9	24.9	MDP112706*057080LWR
1200 Vdc /85°C	7	32	37	22	27.5	10.2	0.8	50	350	10	100	10.7	12.1	MDP122076*032037LRY
	10	42	40	20	37.5	10.2	1.0	20	200	20	190	14.4	7.9	MDP122106*042040LSY
	12	42	37	28	37.5	10.2	1.0	20	240	20	190	12.3	9.8	MDP122126*042037LSY
	12	42	44	24	37.5	10.2	1.0	20	240	20	190	12.3	9.8	MDP122126*042044LSY
	15	42	45	30	37.5	20.3	1.2	20	300	20	190	10.3	11.3	MDP122156*042045LSR
	20	42	46	35	37.5	20.3	1.2	20	400	20	190	7.6	14.5	MDP122206*042046LSR
	22	42	50	35	37.5	20.3	1.2	20	440	20	190	7.1	16.0	MDP122226*042050LSR
	28	42	55	40	37.5	20.3	1.2	20	560	20	190	6.1	19.9	MDP122286*042055LSR
	35	42	62	45	37.5	20.3	1.2	20	700	20	190	5.1	21.4	MDP122356*042062LSR
	25	57.5	45	30	52.5	20.3	1.2	12	300	33	320	12.0	9.8	MDP122256*057045LWR
	35	57.5	50	35	52.5	20.3	1.2	12	420	33	320	9.0	13.4	MDP122356*057050LWR
	40	57.5	56	35	52.5	20.3	1.2	12	480	33	320	7.9	13.9	MDP122406*057056LWR
	45	57.5	64.5	35	52.5	20.3	1.2	12	540	33	320	7.3	16.7	MDP122456*057064LWR
	50	57.5	55	45	52.5	20.3	1.2	12	600	33	320	6.9	16.9	MDP122506*057055LWR
	55	57.5	70	35	52.5	20.3	1.2	12	660	33	320	6.5	18.2	MDP122556*057070LWR
	60	57.5	65	45	52.5	20.3	1.2	12	720	33	320	5.9	19.6	MDP122606*057065LWR
	60	57.5	80	35	52.5	20.3	1.2	12	720	33	320	5.9	19.6	MDP122606*057080LWR

备注：“*”表示产品的容量偏差，J=±5%，K=±10%。