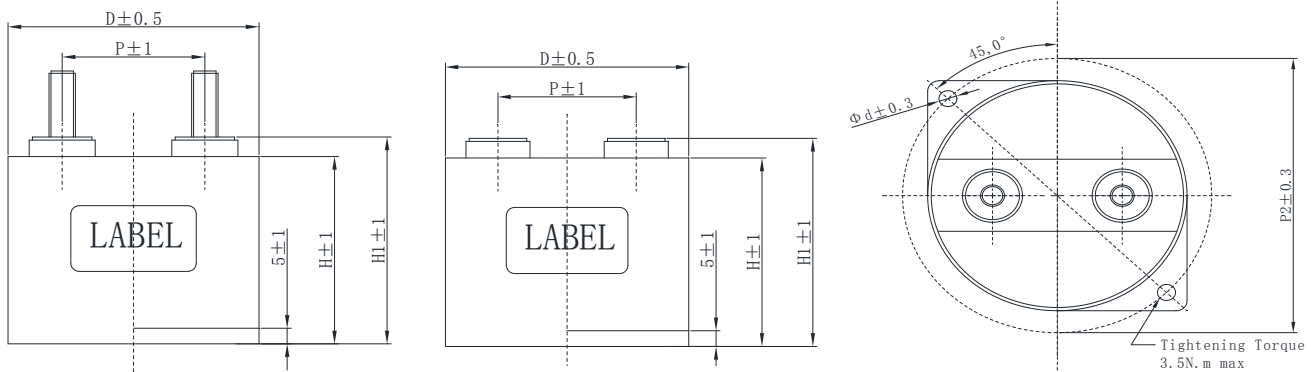




## 金屬化聚丙烯薄膜電容 ( DBB ) 直流支撐 METALLIZED POLYPROPYLENE FILM CAPACITOR (DBB) DC-LINK



### 產品結構 Product structure

- ◆ 電介子：金屬化聚丙烯薄膜  
Dielectric: metallized polypropylene film
- ◆ 引出電極：鍍錫銅端子  
Lead-out electrode: Tin Copper Terminal
- ◆ 封裝：阻燃塑料外殼，樹脂填充  
Packaging: flame retardant plastic housing resin filled

### 推薦應用 Recommended applications

- ◆ DC 濾波 DC filter
- ◆ 純電動、混動汽車 All-electric, hybrid cars
- ◆ 馬達驅動 Motor Drive
- ◆ 開關電源 Switching power supply

### 電氣特性 Electrical characteristics

引用標準 Reference Standard	IEC61071/GBT17702-2021 AEC-Q200				
工作溫度 Operating temperature	-40 ~ +105°C				
容量範圍 Capacity Range	6.8 ~ 500µf				
額定電壓 Rated voltage	Un@70°C	500V	700V	900V	1100V
	Un@85°C	450V	600V	760V	900V
	Un@105°C	330V	440V	550V	650V
	Un@70°C	1200V	1500V	1800V	2200V
	Un@85°C	1000V	1250V	1500V	1800V
	Un@105°C	730V	915V	1100V	1300V



容量誤差 Capacity error	$\pm 5\% (J) \pm 10\% (K)$
損耗因素 Loss Factor	0.002 @ 100Hz 20°C±5°C
預期壽命 Life expectancy	100000hrs @ Un , $\theta_{hs}=70^{\circ}\text{C}$
極間電壓 Inter-pole voltage	1.5Un ( DC ) ( 10s , 20°C±5°C )
極殼電壓 Polar shell voltage	Un ≤1500Vdc , 3000Vac ( 10s , 50Hz , 20°C±5°C ) Un >1500Vdc , ( 1.5Un+1000 ) Vac ( 10s , 50Hz , 20°C±5°C )
絕緣電阻 Insulation Resistance	( IR × Cn ) 30000s ( 20°C , 100Vdc , 1min )
最高使用海拔 Maximum altitude used	2000m

### 端口尺寸 Port dimensions

外殼 Outer Shell	D mm	端口 Port				P1 mm	P2 mm	d mm
		螺栓 Bolts	扭矩 Torque	螺母 Nuts	扭矩 Torque			
A	87	M8*20	8.5N.M Max	M6*8	4.5N.M Max	45	101	5.5
B	115	M10*20	12N.M Max	M8*8	8.5N.M Max	60	133	6.5



## TYPE: DBB

## SPECIFICATION

## ELECTRICAL CHARACTERISTICS

## 技術參數 Technical data

VR (VDC)	CAP ( $\mu$ F)	Dimension (mm)						I <sub>rms</sub> @45°C@10KHz A	ESR @1KHz (m $\Omega$ )	L <sub>s</sub> (nH)	R <sub>th</sub> (K/W)	Weight (kg)	Du/dt (v/ $\mu$ s)
		D	H	H1	P	P2	d						
<b>Un @ 70°C 500VDC, Us 750V, Ur 150V</b>													
500	125	87	41	47	45	101	5.5	90	1.1	25	6.8	0.36	37
	200	87	51	57	45	101	5.5	90	1.5	32	5.9	0.39	25
	275	87	65	71	45	101	5.5	85	1.5	40	5.0	0.56	16
	350	115	51	57	60	133	6.5	120	1.3	32	4.1	0.78	25
	500	115	65	71	60	133	6.5	125	1.3	40	3.5	0.88	16
<b>Un @ 70°C 700VDC, Us 1050V, Ur 200V</b>													
700	100	87	41	47	45	101	5.5	90	1.1	25	6.8	0.36	48
	150	87	51	57	45	101	5.5	90	1.4	32	5.9	0.39	32
	220	87	65	71	45	101	5.5	85	1.5	40	5.0	0.56	21
	250	115	51	57	60	133	6.5	115	1.3	32	4.1	0.78	32
	350	115	65	71	60	133	6.5	120	1.4	40	3.5	0.88	21
<b>Un @ 70°C 900VDC, Us 1350V, Ur 250V</b>													
900	68	87	41	47	45	101	5.5	80	1.2	25	6.8	0.36	56
	100	87	51	57	45	101	5.5	80	1.5	32	5.9	0.39	37
	140	87	65	71	45	101	5.5	75	1.6	40	5.0	0.56	25
	200	115	51	57	60	133	6.5	110	1.3	32	4.1	0.78	37
	300	115	65	71	60	133	6.5	115	1.4	40	3.5	0.88	25
<b>Un @ 70°C 1100VDC, Us 1650V, Ur 300V</b>													
1100	47	87	41	47	45	101	5.5	75	1.2	25	6.8	0.36	73
	68	87	51	57	45	101	5.5	75	1.5	32	5.9	0.39	49
	100	87	65	71	45	101	5.5	70	1.7	40	5.0	0.56	33
	125	115	51	57	60	133	6.5	105	1.4	32	4.1	0.78	49
	180	115	65	71	60	133	6.5	110	1.5	40	3.5	0.88	33
<b>Un @ 70°C 1200VDC, Us 1920V, Ur 300V</b>													
1200	25	87	41	47	45	101	5.5	60	1.3	25	6.8	0.36	90
	35	87	51	57	45	101	5.5	60	1.7	32	5.9	0.39	70
	50	87	65	71	45	101	5.5	55	1.9	40	5.0	0.56	50
	60	115	51	57	60	133	6.5	100	1.4	32	4.1	0.78	70
	80	115	65	71	60	133	6.5	110	1.6	40	3.5	0.88	50
<b>Un @ 70°C 1500VDC, Us 2400V, Ur 400V</b>													
1500	18	87	41	47	45	101	5.5	55	1.4	25	6.8	0.36	113
	25	87	51	57	45	101	5.5	55	1.8	32	5.9	0.39	85
	35	87	65	71	45	101	5.5	50	2.1	40	5.0	0.56	60
	47	115	51	57	60	133	6.5	100	1.5	32	4.1	0.78	85
	68	115	65	71	60	133	6.5	105	1.6	40	3.5	0.88	60



**TYPE: DBB SPECIFICATION**

**ELECTRICAL CHARACTERISTICS**

技術參數 Technical data

VR (VDC)	CAP ( $\mu$ F)	Dimension (mm)						I <sub>rms</sub> @45°C@10KHz A	ESR @1KHz (m $\Omega$ )	L <sub>s</sub> (nH)	R <sub>th</sub> (K/W)	Weight (kg)	Du/dt (v/ $\mu$ s)
		D	H	H1	P	P2	d						
<b>Un @ 70°C 1800VDC, Us 2880V, Ur 450V</b>													
1800	10	87	41	47	45	101	5.5	50	1.5	25	6.8	0.36	175
	15	87	51	57	45	101	5.5	50	1.9	32	5.9	0.39	120
	22	87	65	71	45	101	5.5	45	2.2	40	5.0	0.56	80
	25	115	51	57	60	133	6.5	90	1.6	32	4.1	0.78	120
	35	115	65	71	60	133	6.5	100	1.8	40	3.5	0.88	80
<b>Un @ 70°C 2200VDC, Us 3520V, Ur 550V</b>													
2200	6.8	87	41	47	45	101	5.5	50	1.6	25	6.8	0.36	200
	10	87	51	57	45	101	5.5	50	2.1	32	5.9	0.39	150
	15	87	65	71	45	101	5.5	45	2.5	40	5.0	0.56	100
	18	115	51	57	60	133	6.5	90	1.7	32	4.1	0.78	150
	25	115	65	71	60	133	6.5	100	2.0	40	3.5	0.88	100

寿命曲线图 Expected Lifetime curve

