

### 产品结构

介质：金属化聚丙烯薄膜  
 外壳：塑料外壳封装  
 内部灌封：树脂填充 (UL94 V-0)

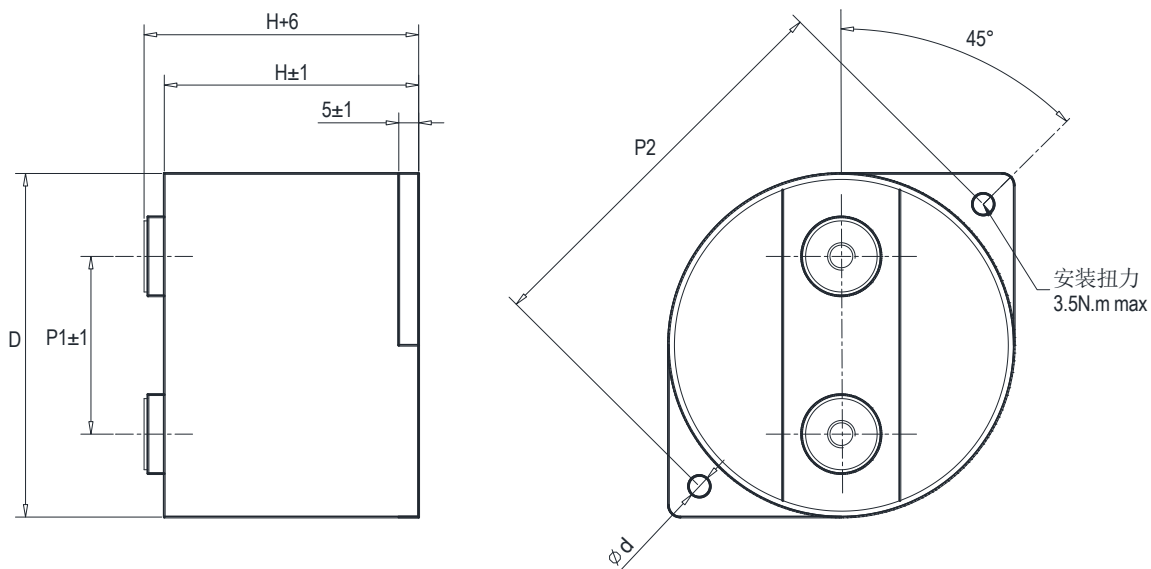
### 电气特性

工作温度：-40 至 +105 °C  
 容量范围：6.8 至 500μF  
 额定电压：500 至 2200 VDC  
 容量偏差：±5%, ±10%  
 损耗因素： $\leq 2 \times 10^{-3}$  @ 100Hz, 20±5°C  
 预期寿命：100,000 小时 @ Un, 70 °C (热点温度)  
 极间耐压：1.5Un (DC) @ 10s, 20±5°C  
 极壳耐压：(1.5Un+1000)VAC, 最小 3000VAC (10s, 50Hz)  
 (IR×Cn) 30000s (不超过 30GΩ),  
 绝缘电阻：100VDC (20±5°C), 1 分钟



### 应用

DC 滤波 开关电源 马达驱动



外壳	D (mm)	引出端子				P1 (mm)	P2 (mm)	d (mm)
		M (螺杆)	扭矩	F (螺口)	扭矩			
A	87	M8×20	8.5 N.m Max	M6×8	4.5 N.m Max	45	101	5.5
B	115	M10×20	12 N.m Max	M8×8	8.5 N.m Max	60	133	6.5

### 电压等级

Un @ 85°C	500V	600V	700V	800V	900V	1000V	1100V	1200V	1500V	1800V	2000V	2200V
Un @ 105°C	365V	435V	510V	580V	655V	730V	800V	875V	1095V	1310V	1460V	1605V

## 特性参数

订货代码	容量 ( $\mu\text{F}$ )	D (mm)	H (mm)	Ls (nH)	Du/dt (V/ $\mu\text{s}$ )	$I_{\text{Max}}@45^\circ\text{C}$ @10KHz (A)	ESR@1.0KHz (m $\Omega$ )	Rth (k/W)
<b>Un 500VDC , Us 750V , Ur 150V</b>								
SHF-500-125-FA	125	87	41	$\leq 25$	37	90	1.1	6.8
SHF-500-200-FA	200	87	51	$\leq 32$	25	90	1.5	5.9
SHF-500-275-FA	275	87	65	$\leq 40$	16	85	1.5	5.0
SHF-500-350-FB	350	115	51	$\leq 32$	25	120	1.3	4.1
SHF-500-500-FB	500	115	65	$\leq 40$	16	125	1.3	3.5
<b>Un 700VDC , Us 1050V , Ur 200V</b>								
SHF-700-100-FA	100	87	41	$\leq 25$	48	90	1.1	6.8
SHF-700-150-FA	150	87	51	$\leq 32$	32	90	1.4	5.9
SHF-700-220-FA	220	87	65	$\leq 40$	21	85	1.5	5.0
SHF-700-250-FB	250	115	51	$\leq 32$	32	115	1.3	4.1
SHF-700-350-FB	350	115	65	$\leq 40$	21	120	1.4	3.5
<b>Un 900VDC , Us 1350V , Ur 250V</b>								
SHF-900-68-FA	68	87	41	$\leq 25$	56	80	1.2	6.8
SHF-900-100-FA	100	87	51	$\leq 32$	37	80	1.5	5.9
SHF-900-140-FA	140	87	65	$\leq 40$	25	75	1.6	5.0
SHF-900-200-FB	200	115	51	$\leq 32$	37	110	1.3	4.1
SHF-900-300-FB	300	115	65	$\leq 40$	25	115	1.4	3.5
<b>Un 1100VDC , Us 1650V , Ur 300V</b>								
SHF-1100-47-FA	47	87	41	$\leq 25$	73	75	1.2	6.8
SHF-1100-68-FA	68	87	51	$\leq 32$	49	75	1.5	5.9
SHF-1100-100-FA	100	87	65	$\leq 40$	33	70	1.7	5.0
SHF-1100-125-FB	125	115	51	$\leq 32$	49	105	1.4	4.1
SHF-1100-180-FB	180	115	65	$\leq 40$	33	110	1.5	3.5
<b>Un 1200VDC , Us 1800V , Ur 350V</b>								
SHF-1200-25-FA	25	87	41	$\leq 25$	90	60	1.3	6.8
SHF-1200-35-FA	35	87	51	$\leq 32$	70	60	1.7	5.9
SHF-1200-50-FA	50	87	65	$\leq 40$	50	55	1.9	5.0
SHF-1200-60-FB	60	115	51	$\leq 32$	70	100	1.4	4.1
SHF-1200-80-FB	80	115	65	$\leq 40$	50	110	1.6	3.5
<b>Un 1500VDC , Us 2250V , Ur 400V</b>								
SHF-1500-18-FA	18	87	41	$\leq 25$	113	55	1.4	6.8
SHF-1500-25-FA	25	87	51	$\leq 32$	85	55	1.8	5.9
SHF-1500-35-FA	35	87	65	$\leq 40$	60	50	2.1	5.0
SHF-1500-47-FB	47	115	51	$\leq 32$	85	100	1.5	4.1
SHF-1500-68-FB	68	115	65	$\leq 40$	60	105	1.6	3.5
<b>Un 1800VDC , Us 2700V , Ur 450V</b>								
SHF-1800-10-FA	10	87	41	$\leq 25$	175	50	1.5	6.8
SHF-1800-15-FA	15	87	51	$\leq 32$	120	50	1.9	5.9
SHF-1800-22-FA	22	87	65	$\leq 40$	80	45	2.2	5.0
SHF-1800-25-FB	25	115	51	$\leq 32$	120	90	1.6	4.1
SHF-1800-35-FB	35	115	65	$\leq 40$	80	100	1.8	3.5
<b>Un 2200VDC , Us 3300V , Ur 550V</b>								
SHF-2200-6.8-FA	6.8	87	41	$\leq 25$	200	50	1.6	6.8
SHF-2200-10-FA	10	87	51	$\leq 32$	150	50	2.1	5.9
SHF-2200-15-FA	15	87	65	$\leq 40$	100	45	2.5	5.0
SHF-2200-18-FB	18	115	51	$\leq 32$	150	90	1.7	4.1
SHF-2200-25-FB	25	115	65	$\leq 40$	100	100	2.0	3.5

**产品特点**

介质： 金属化聚丙烯薄膜  
 外壳： 塑料外壳封装  
 内部灌封： 树脂填充 (UL94 V-0)

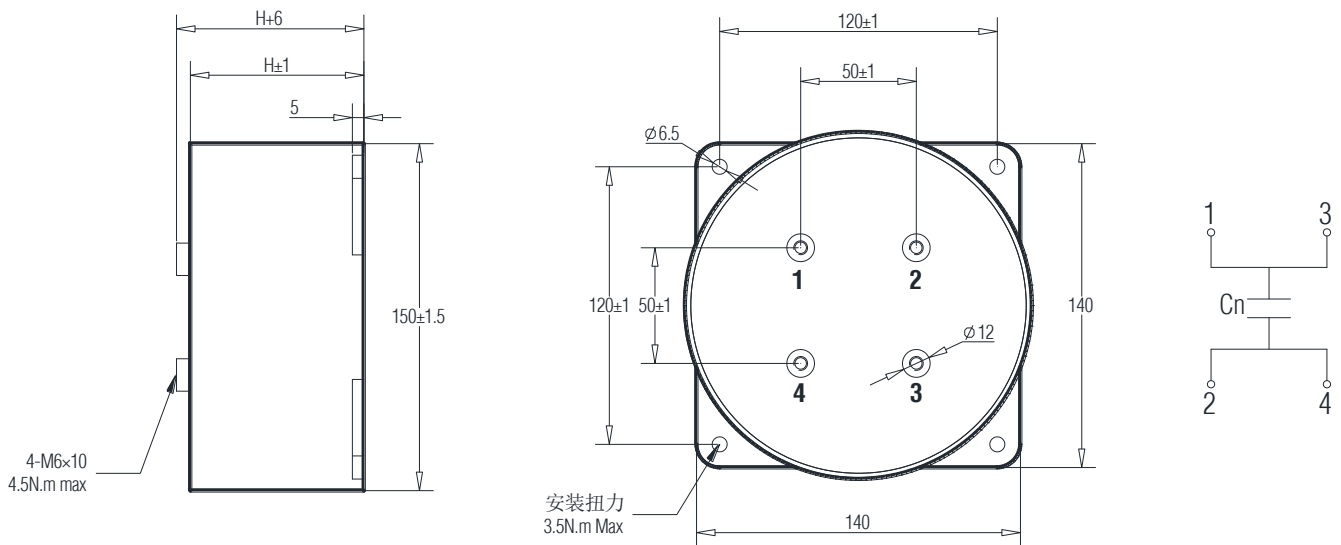
**电气特性**

工作温度： - 40 至 + 105 °C  
 容量范围： 30 至 2500µF  
 额定电压： 600 至 4000VDC  
 容量偏差： ± 5%  
 损耗因素：  $\leq 3 \times 10^{-3}$  @ 100 Hz, 20±5°C  
 预期寿命： 100,000 小时 @ Un, 70 °C (热点温度)  
 极间耐压： 1.5Un (DC) @ 10s, 20±5°C  
 极壳耐压： (1.5Un+1000)VAC, 最小 3000VAC (10s,50Hz)  
 (IR×Cn) 30000s (不超过 30GΩ),  
 绝缘电阻： 100VDC (20±5°C), 1 分钟



**应用**

DC 滤波 测试设备 感应加热



**电压等级**

Un at 85°C	600V	700V	900V	1100V	1200V	2000V	3000V	4000V
Un at 105°C	435V	510V	655V	800V	875V	1460V	2190V	2920V

## 特性参数

订货代码	容量 ( $\mu\text{F}$ )	H (mm)	I <sub>peak</sub> (KA)	I <sub>Max@45°C</sub> @10KHz (A)	ESR@1.0KHz (m $\Omega$ )	Ls (nH)	Rth (k/W)	Wn (J)	重量 (Kg)
<b>Un 600VDC , Us 900V , Ur 150V</b>									
SHF-600-1200-FC	1200	75	6.2	98	0.8	$\leq 9$	1.9	216	1.83
SHF-600-1400-FC	1400	85	5.9	98	0.8	$\leq 10$	1.9	252	1.96
SHF-600-1800-FC	1800	100	5.9	100	0.8	$\leq 11$	1.8	324	2.21
SHF-600-2500-FC	2500	125	6.1	102	0.9	$\leq 12$	1.7	450	2.62
<b>Un 700VDC , Us 1050V , Ur 175V</b>									
SHF-700-900-FC	900	75	5.4	97	0.8	$\leq 9$	1.9	221	1.83
SHF-700-1100-FC	1100	85	5.4	97	0.8	$\leq 10$	1.9	270	2.00
SHF-700-1400-FC	1400	100	5.4	99	0.9	$\leq 11$	1.8	343	2.25
SHF-700-1900-FC	1900	125	5.4	100	0.9	$\leq 12$	1.7	466	2.67
<b>Un 900VDC , Us 1350V , Ur 200V</b>									
SHF-900-450-FC	450	60	4.9	93	0.8	$\leq 8$	2.0	182	1.70
SHF-900-680-FC	680	75	4.9	95	0.9	$\leq 9$	1.9	275	1.83
SHF-900-850-FC	850	85	5.0	97	0.9	$\leq 10$	1.9	344	1.99
SHF-900-1050-FC	1050	100	4.9	97	0.9	$\leq 11$	1.8	425	2.26
SHF-900-1400-FC	1400	125	4.8	99	0.9	$\leq 12$	1.7	567	2.64
<b>Un 1100VDC , Us 1650V , Ur 250V</b>									
SHF-1100-290-FC	290	60	3.9	90	0.9	$\leq 8$	2.0	175	1.70
SHF-1100-420-FC	420	75	3.7	92	0.9	$\leq 9$	1.9	254	1.80
SHF-1100-530-FC	530	85	3.9	93	0.9	$\leq 10$	1.9	321	2.01
SHF-1100-680-FC	680	100	3.9	94	0.9	$\leq 11$	1.8	411	2.27
SHF-1100-900-FC	900	125	3.8	95	1.0	$\leq 12$	1.7	545	2.65
<b>Un 1200VDC , Us 1800V , Ur 275V</b>									
SHF-1200-200-FC	200	60	3.2	87	1.0	$\leq 8$	2.0	144	1.71
SHF-1200-360-FC	360	75	3.5	91	0.9	$\leq 9$	1.9	259	1.84
SHF-1200-450-FC	450	85	3.6	92	0.9	$\leq 10$	1.9	324	2.00
SHF-1200-550-FC	550	100	3.5	93	1.0	$\leq 11$	1.8	396	2.22
SHF-1200-750-FC	750	125	3.5	94	1.0	$\leq 12$	1.7	540	2.71
<b>Un 2000VDC , Us 3000V , Ur 450V</b>									
SHF-2000-160-FC	160	85	2.1	82	1.2	$\leq 10$	1.9	320	1.98
SHF-2000-210-FC	210	100	2.1	83	1.2	$\leq 11$	1.8	420	2.28
SHF-2000-280-FC	280	125	2.1	84	1.3	$\leq 12$	1.7	560	2.72
<b>Un 3000VDC , Us 4500V , Ur 700V</b>									
SHF-3000-48-FC	48	75	2.7	71	1.6	$\leq 9$	1.9	216	1.79
SHF-3000-60-FC	60	85	2.7	74	1.5	$\leq 10$	1.9	270	1.96
SHF-3000-80-FC	80	100	2.7	78	1.4	$\leq 11$	1.8	360	2.27
SHF-3000-110-FC	110	125	2.7	82	1.4	$\leq 12$	1.7	495	2.70
<b>Un 4000VDC , Us 4000V , Ur 900V</b>									
SHF-4000-30-FC	30	75	2.1	62	2.0	$\leq 9$	1.9	240	1.84
SHF-4000-65-FC	65	125	2.1	73	1.7	$\leq 12$	1.7	520	2.67