

▲主要应用/Application

广泛应用于 UPS，逆变器，感应加热，电焊机等设备的 IGBT 模块吸收保护。

Widely used in UPS, inverter, induction heaters, welding machine for IGBT snubber protection.

▲产品特点/Characteristics

电介质：聚丙烯薄膜

结构：双面金属化与金属化膜内串结构

封装：塑料外壳，阻燃（94V-0 级）环氧封装

引出：镀锡铜片引出

能承受高脉冲电流，高 dv/dt

ESL，ESR 小

具有自愈性

Dielectric: Polypropylene film

Construction: Extended double side metalized carrier film
with internal series connection and metalized film

Coating: Resistant plastic case with resin sealing.

Flame retardant execution(UL 94V-0)

Terminals: Tinned copper lugs

High pulse current, high dv/dt

Low ESL and ESR

Self healing

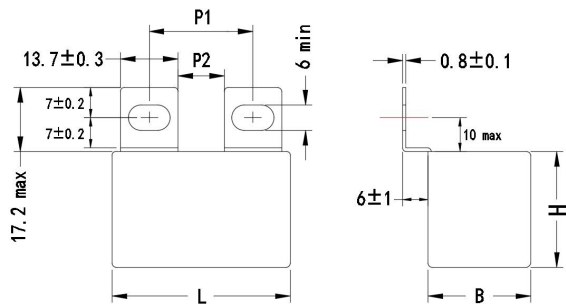


▲技术性能/Specifications

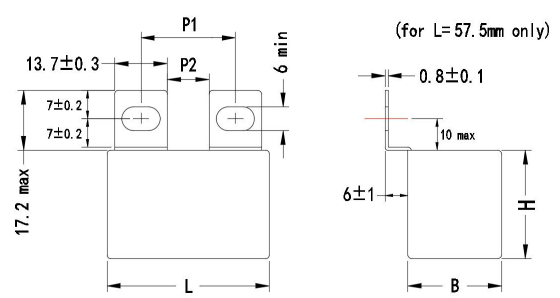
引用标准/Reference standards	IEC 61071	
工作温度范围/Operating temperature range	-40~105°C	
容量范围/Capacitance	0.047~15μF	
额定电压 /Rated Voltage	700~3000VDC	
容量偏差 /Tolerance	±5%, ±10%	
极间耐电压 /Test voltage between terminals	2Ur(DC) 10s 25±5°C	
极壳耐电压 /Test voltage between terminals and case	3000V 50Hz 60S, 25±5°C	
损耗角正切/Dissipation factor	Cr≤1.0μF tgδ≤5×10 ⁻⁴ Cr>1.0μF tgδ≤6×10 ⁻⁴	at 25±5°C, 1KHz
绝缘电阻/Insulation resistance	C*IR≥30000S, at 100VDC, 25±5°C, 60S	
预期寿命/Life expectancy	100000h at Ur and 70°C	

▲型号编码/Part Numbering System

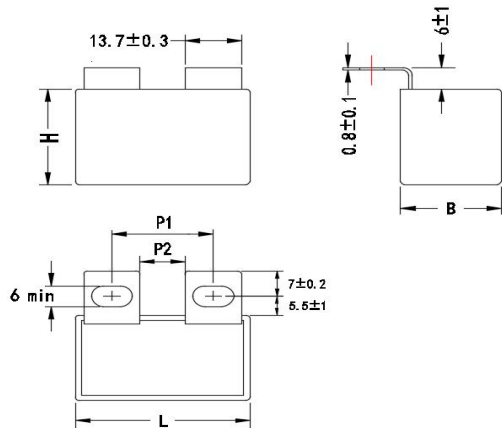
170	FJ	4560	*	1	#
电压 Voltage	系列 Type	容量 Capacitance	误差 Tolerance	尺寸 Size	接线片方式 lug style
170=700vdc	FJ	3100=0.01uf	K= ±10%	1	A
210=1000vdc		4100=0.1uf	J= ±5%	2	AA
212=1200vdc		5100=1.0uf		3	
230=3000vdc		6100=10uf			



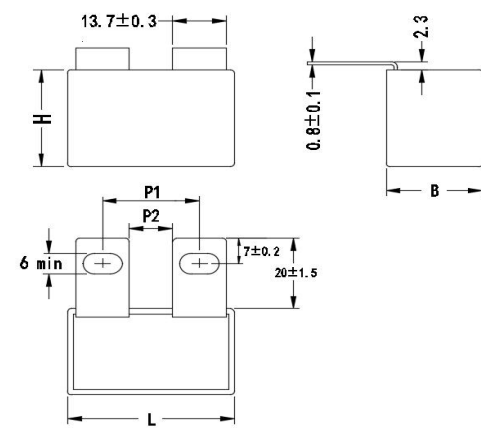
Style A-AA



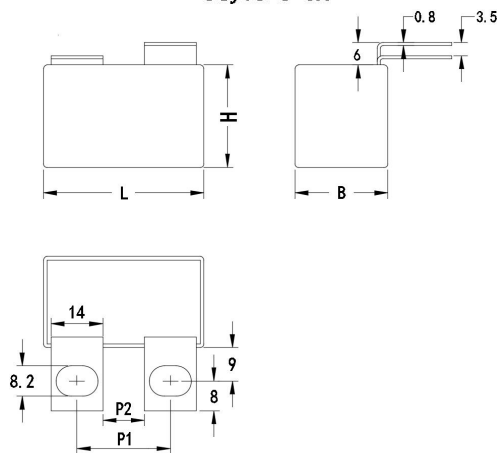
Style R



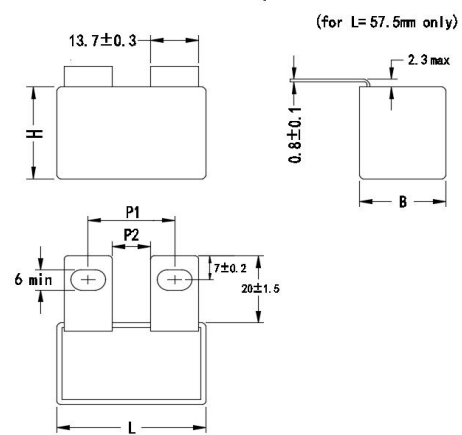
Style C-CA



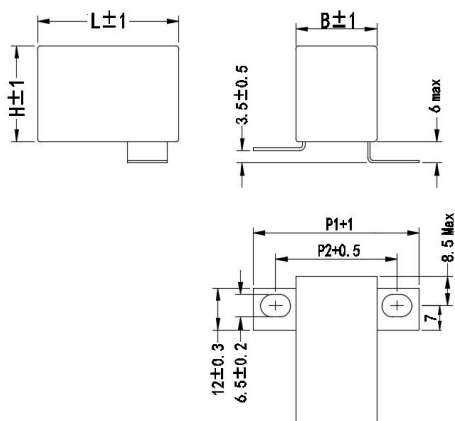
Style N-NA



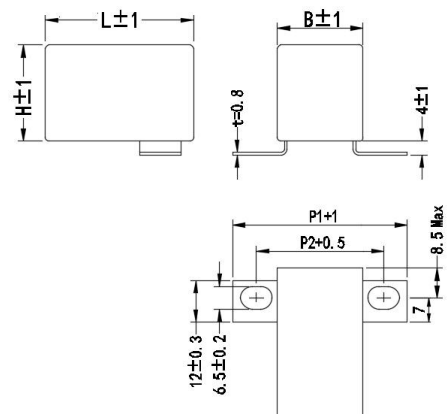
Style D-DA



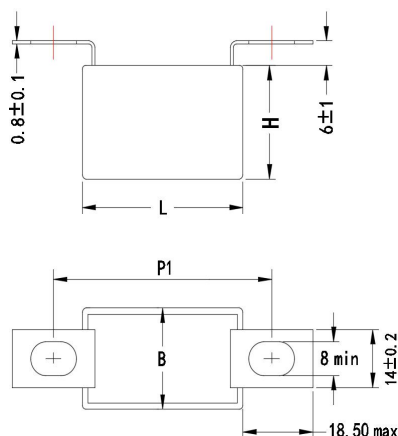
Style Y



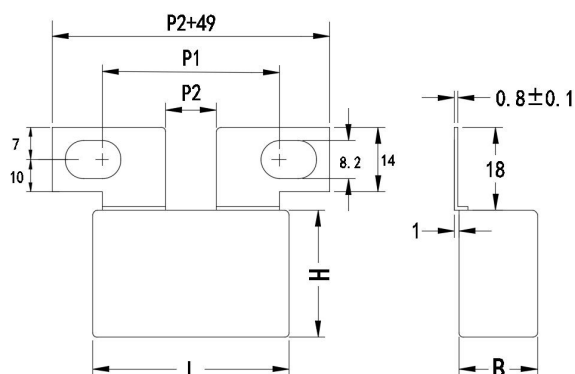
Style F



Style FS



Style E



Style B-BA

▲接线片方式对照表 lug style Comparison Table

Fixing pitch and distance between lugs (mm)				
Lug style	L	P1		P2
		M6	M8	min
A – AM8 C – CM8	42.5	23 - 28	25 - 26	11
D – DM8 N – NM8	57.5	37 - 42	39 – 40	24
AA – AAM8 CA – CAM8	42.5	20 - 25	22 - 23	8
DA – DAM8 NA – NAM8	57.5	34 - 39	36 - 37	21
R – RAM8	42.5	Not available		-
Y – YAM8	57.5	23 - 28	23 - 26	11
E – EM8	42.5	67 - 73	51 - 64	-
	57.5	82 - 88	65 - 78	-

B(M6)	L	P2	P1	P2	P1
B*11=P2=11 B*15=P2=15 B*28=P2=28	42.5	11	29-39	15	33-45
	57.5	11	29-39	15	33-45
		-	-	28	46-58
BA(M8) BA*11=P2=11 BA*15=P2=15 BA*28=P2=28	42.5	8	33-42	15	40-49
	57.5	15	40-49	24	49-58
		-	-	28	53-62

*代表 V 或 S, Denotes Vor S --V=L=42,5 S=L=57,5

Lugs style	B	P1	P2
F-FS	15	43(M6)	30
		45(M6)	32
	17	43(M6)	30
		45(M6)	32

Fixing slot size(mm)	
A, C, D, R, N, Y, E, B, AA, CA, DA, RA,	A=6min
AM8, CM8, DM8, RM8, AAM8, CAM8, DAM8, RAM8, NAM8, YAM8, EM8, BAM8	A=8min

▲Technical Data

Cap (μF)	L (mm)	B (mm)	H (mm)	du/dt (v/μs)	Ipeak (A)	Irms@45°C @10kHz(A)	ESR@10k Hz(mΩ)	Ordering Code
Un 700VDC Urms 420VAC Us 1100V								
1.0	42.5	24.5	27.5	325	325	16.0	3.3	170FJ5100*1#
1.0	42.5	17	27.5	580	590	15.5	3.3	170FJ5100*2#
1.2	42.5	24.5	27.5	600	700	17.0	3.2	170FJ5120*1#
1.5	42.5	22.0	30.0	325	487	19.0	2.9	170FJ5150*1#
2.0	42.5	33.5	35.5	325	650	23.0	2.6	170FJ5200*1#
2.0	42.5	28.0	37.0	325	650	22.5	2.6	170FJ5200*2#
2.2	42.5	33.5	35.5	325	715	23.5	2.5	170FJ5220*1#
2.2	42.5	28.0	37.0	325	715	23.0	2.5	170FJ5220*2#
2.5	42.5	33.5	35.5	325	812	24.0	2.3	170FJ5250*1#
2.5	42.5	28.0	37.0	325	812	23.5	2.3	170FJ5250*2#
3.0	42.5	33.0	45.0	325	975	27.0	2.2	170FJ5300*1#
3.0	42.5	30.0	45.0	325	975	26.5	2.2	170FJ5300*2#

*可以根据要求定做规格尺寸 Special design available to meet your requirements.

Cap (μ F)	L (mm)	B (mm)	H (mm)	du/dt (v/ μ s)	Ipeak (A)	Irms@45°C @10kHz(A)	ESR@10k Hz(m Ω)	Ordering Code
Un 700VDC Urms 420VAC Us 1100V								
3.3	42.5	33.0	45.0	600	1900	28.5	2.2	170FJ5330*1#
3.3	42.5	30.0	45.0	325	1072	27.0	2.2	170FJ5330*2#
3.5	42.5	33.0	45.0	325	1134	28.0	2.1	170FJ5350*1#
3.5	42.5	30.0	45.0	325	1134	27.5	2.1	170FJ5350*2#
4.0	57.5	30.0	45.0	220	880	28.0	2.4	170FJ5400*1#
4.0	42.5	33.0	45.0	325	1300	33.0	1.9	170FJ5400*2#
4.7	57.5	35.0	50.0	220	1034	32.0	2.2	170FJ5470*1#
4.7	57.5	30.0	45.0	220	1034	31.5	2.2	170FJ5470*2#
5.0	57.5	35.0	50.0	220	1100	32.0	2.2	170FJ5500*1#
5.0	57.5	30.0	45.0	220	1100	31.5	2.2	170FJ5500*2#
5.6	57.5	35.0	50.0	220	1232	33.0	2.1	170FJ5560*1#
6.8	57.5	35.0	50.0	220	1496	33.0	2.1	170FJ5680*1#
10.0	57.5	42.5	56.0	220	2200	34.0	1.4	170FJ6100*1#
Un 850VDC Urms 500VAC Us 1300V								
0.82	42.5	24.5	27.5	870	600	16.5	3.2	185FJ4820*1#
1.0	42.5	24.5	27.5	770	770	18.8	2.8	185FJ5100*2#
1.0	42.5	22.0	30.0	750	700	18.0	2.8	185FJ5100*1#
1.5	42.5	33.5	35.5	750	600	24.0	2.3	185FJ5150*1#
1.5	42.5	28.0	37.0	750	600	23.5	2.3	185FJ5150*2#
2.0	42.5	33.5	35.5	750	800	24.5	2.3	185FJ5200*1#
2.2	42.5	30.0	45.0	750	1780	27.5	1.9	185FJ5220*1#
2.5	42.5	33.0	45.0	750	1875	29.0	1.9	185FJ5250*1#
2.5	42.5	30.0	45.0	750	1800	29.5	1.9	185FJ5250*2#
3.0	57.5	30.0	45.0	480	1840	29.0	2.0	185FJ5300*1#
3.3	57.5	30.0	45.0	480	924	29.5	2.3	185FJ5330*1#
4.0	57.5	35.0	50.0	480	1120	30.5	2.2	185FJ5400*1#
4.7	57.5	35.0	50.0	480	1316	33.0	2.0	185FJ5470*1#
6.8	57.5	42.5	56.0	480	1904	34.0	1.6	185FJ5680*1#
Un 1000VDC Urms 575VAC Us 1550V								
0.68	42.5	24.5	27.5	500	340	16.0	3.4	210FJ4680*1#
0.75	42.5	24.5	27.5	800	650	17.5	3.3	210FJ4750*1#
0.75	42.5	22.0	30.0	500	375	16.0	3.3	210FJ4750*2#
1.0	42.5	28.0	37.0	500	500	18.0	3.0	210FJ5100*1#
1.2	42.5	33.5	35.5	500	600	23.0	2.6	210FJ5120*1#
1.2	42.5	28.0	37.0	500	600	22.5	2.6	210FJ5120*2#
1.5	42.5	33.5	35.5	800	1200	24.5	2.3	210FJ5150*1#
1.75	42.5	33.0	45.0	500	875	24.5	2.2	210FJ5175*1#
1.75	42.5	30.0	45.0	500	875	24.0	2.2	210FJ5175*2#
2.0	42.5	33.0	45.0	800	1700	27.5	2.1	210FJ5200*1#
2.2	57.5	30.0	45.0	350	770	27.5	2.6	210FJ5220*1#
2.5	57.5	30.0	45.0	350	875	29.0	2.2	210FJ5250*1#
2.5	42.5	33.0	45.0	750	1800	25.5	3.0	210FJ5250*2#
3.0	57.5	35.0	50.0	350	1050	32.0	2.2	210FJ5300*1#
3.3	57.5	35.0	50.0	350	1155	32.0	2.1	210FJ5330*1#
5.0	57.5	42.5	56.0	350	1750	34.0	1.7	210FJ5500*1#
Un 1200VDC Urms 630VAC Us 1750V								
0.22	42.5	24.5	27.5	650	143	12.5	5.3	212FJ4220*1#
0.22	42.5	15.0	26.0	650	143	12.0	5.3	212FJ4220*2#
0.33	42.5	24.5	27.5	650	210	13.0	5.2	212FJ4330*1#
0.33	42.5	15.0	26.0	650	210	12.5	5.2	212FJ4330*2#

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▲Technical Data

Cap (μF)	L (mm)	B (mm)	H (mm)	du/dt (v/μs)	Ipeak (A)	Irms@45°C @10kHz(A)	ESR@10k Hz(mΩ)	Ordering Code
Un 1200VDC Urms 630VAC Us 1750V								
0.39	42.5	24.5	27.5	650	254	14.0	4.7	212FJ4390*1#
0.39	42.5	17.0	28.0	650	254	13.5	4.7	212FJ4390*2#
0.47	42.5	24.5	27.5	1000	450	15.0	4.2	212FJ4470*1#
0.47	42.5	22.0	30.0	650	308	14.5	4.2	212FJ4470*2#
0.56	42.5	22.0	30.0	650	364	15.0	3.8	212FJ4560*1#
0.56	42.5	24.5	27.5	1000	560	15.5	3.8	212FJ4560*2#
0.68	42.5	33.5	35.5	1000	680	20.0	3.4	212FJ4680*1#
0.68	42.5	22.0	30.0	650	442	19.5	3.4	212FJ4680*2#
0.82	42.5	33.5	35.5	650	533	21.0	3.1	212FJ4820*1#
0.82	42.5	28.0	37.0	650	533	20.5	3.1	212FJ4820*2#
1.0	42.5	33.5	35.5	1000	1000	21.5	2.8	212FJ5100*1#
1.0	42.5	28.0	37.0	650	650	21.0	2.8	212FJ5100*2#
1.2	42.5	33.0	45.0	650	780	24.5	2.5	212FJ5120*1#
1.2	42.5	30.0	45.0	650	780	24.0	2.5	212FJ5120*2#
1.5	42.5	33.0	45.0	650	975	26.0	2.2	212FJ5150*1#
1.5	42.5	33.0	35.5	870	1300	25.5	2.2	212FJ5150*2#
2.0	57.5	30.0	45.0	455	910	28.0	1.8	212FJ5200*1#
2.0	42.5	33.0	45.0	870	1700	25.0	3.3	212FJ5220*2#
2.2	42.5	33.0	45.0	870	1700	31.0	2.5	212FJ5220*1#
2.2	57.5	30.0	50.0	455	1001	30.5	2.5	212FJ5220*2#
2.5	57.5	35.0	50.0	455	1138	32.0	2.4	212FJ5250*1#
3.0	57.5	35.0	50.0	455	1365	33.0	2.2	212FJ5300*1#
4.5	57.5	42.5	56.0	455	2047	3.40	1.8	212FJ5450*1#
Un 1600VDC Urms 660VAC Us 2350V								
0.22	42.5	24.5	27.5	1580	394	18.2	4.4	216FJ4220*1#
0.22	42.5	17.0	28.0	1600	394	18.0	4.4	216FJ4220*2#
0.33	42.5	24.5	27.5	1280	390	19.0	4.1	216FJ4330*1#
0.33	42.5	22.0	30.0	1280	390	19.5	4.1	216FJ4330*2#
0.47	42.5	33.5	35.5	1280	413	20.0	3.9	216FJ4470*1#
0.47	42.5	28.0	37.0	1280	413	19.5	3.9	216FJ4470*2#
0.56	42.5	33.5	35.5	1280	492	20.5	3.2	216FJ4560*1#
0.56	42.5	28.0	37.0	1280	492	20.0	3.2	216FJ4560*2#
0.68	42.5	33.5	35.5	880	598	21.0	3.0	216FJ4680*1#
0.82	42.5	33.0	45.0	880	721	23.1	2.6	216FJ4820*1#
0.82	42.5	30.0	45.0	880	721	20.5	2.6	216FJ4820*2#
1.0	57.5	30.0	45.0	610	610	24.5	2.8	216FJ5100*1#
1.2	57.5	30.0	45.0	610	732	27.2	2.7	216FJ5120*1#
1.5	57.5	35.0	50.0	610	915	29.5	2.5	216FJ5150*1#
2.2	57.5	42.5	56.0	610	1342	31.0	1.9	216FJ5220*1#
Un 2000VDC Urms 700VAC Us 2600V								
0.10	42.5	24.5	27.5	1000	100	9.0	13.1	220FJ4100*1#
0.10	42.5	15.0	26.0	1000	100	9.5	13.1	220FJ4100*2#
0.15	42.5	24.5	27.5	1000	150	11.5	7.6	220FJ4150*1#
0.15	42.5	17.0	28.0	1000	150	11.0	7.6	220FJ4150*2#
0.22	42.5	24.5	27.5	1000	220	13.0	5.2	220FJ4220*1#
0.22	42.5	22.0	30.0	1000	220	12.5	5.2	220FJ4220*2#
0.33	42.5	33.5	35.5	1000	330	17.5	4.2	220FJ4330*1#
0.33	42.5	28.0	37.0	1000	330	17.0	4.2	220FJ4330*2#
0.39	42.5	33.5	35.5	1000	390	18.5	3.7	220FJ4390*1#
0.39	42.5	28.0	37.0	1000	390	18.0	3.7	220FJ4390*2#
0.47	42.5	33.0	45.0	1000	470	215	3.3	220FJ4470*1#
0.47	42.5	28.0	37.0	1000	470	21.0	3.3	220FJ4470*2#
0.56	42.5	33.0	45.0	1000	560	22.5	3.1	220FJ4560*1#

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▲Technical Data

Cap (μ F)	L (mm)	B (mm)	H (mm)	du/dt (V/ μ s)	I _{peak} (A)	I _{rms} @45°C @10kHz(A)	ESR@10k Hz(m Ω)	Ordering Code
Un 2000VDC Urms 700VAC Us 2600V								
0.68	57.5	30.0	45.0	700	476	23.5	3.6	220FJ4680*1#
0.82	57.5	30.0	45.0	700	574	25.0	3.2	220FJ4820*1#
1.0	57.5	35.0	50.0	1000	900	28.0	2.9	220FJ5100*1#
1.2	57.5	35.0	50.0	700	840	30.0	2.5	220FJ5120*1#
1.5	57.5	35.0	50.0	700	1100	30.0	3.5	220FJ5150*1#
1.5	57.5	35.0	50.0	725	1200	35.5	3.9	220FJU5150*1#
1.8	57.5	42.5	56.0	700	1260	32.0	2.1	220FJ5180*1#
Un 2500VDC Urms 725VAC Us 3300V								
0.10	42.5	24.5	27.5	1350	135	10.0	11.3	225FJ4100*1#
0.10	42.5	17.0	28.0	1350	135	9.5	11.3	225FJ4100*2#
0.15	42.5	24.5	27.5	1350	202	12.0	7.3	225FJ4150*1#
0.15	42.5	22.0	30.0	1350	202	11.5	7.3	225FJ4150*2#
0.22	42.5	33.5	35.5	1350	297	16.0	53	225FJ4220*1#
0.22	42.5	28.0	37.0	1350	297	15.5	5.3	225FJ4220*2#
0.33	42.5	33.5	35.5	1350	445	19.0	3.9	225FJ4330*1#
0.47	42.5	33.0	45.0	1350	634	23.0	3.1	225FJ4470*1#
0.56	57.5	30.0	45.0	945	530	23.5	3.6	225FJ4560*1#
0.68	57.5	35.0	50.0	945	642	26.0	3.3	225FJ4680*1#
0.82	57.5	35.0	50.0	945	774	27.0	3.0	225FJ4820*1#
1.2	57.5	42.5	56.0	945	1134	28.0	2.5	225FJ5120*1#
Un 3000VDC Urms 750VAC Us 4000V								
0.047	42.5	24.5	27.5	1600	75	8.4	17.1	230FJ3470*1#
0.047	42.5	15.0	26.0	1600	75	8.0	17.1	230FJ3470*2#
0.068	42.5	24.5	27.5	1600	108	10.0	12.1	230FJ3680*1#
0.068	42.5	17.0	28.0	1600	108	9.5	12.1	230FJ3680*2#
0.10	42.5	33.5	35.5	1600	160	13.0	8.4	230FJ4100*1#
0.10	42.5	22.0	30.0	1600	160	125	8.6	230FJ4100*2#
0.15	42.5	33.5	35.5	1600	240	15.5	6.2	230FJ4150*1#
0.15	42.5	28.0	37.0	1600	240	15.0	6.2	230FJ4150*2#
0.22	42.5	33.0	45.0	1600	352	18.6	1.4	230FJ4220*1#
0.22	42.5	30.0	45.0	1600	352	18.0	1.4	230FJ4220*2#
0.33	57.5	30.0	45.0	870	288	22.0	4.3	230FJ4330*1#
0.47	57.5	35.0	50.0	870	408	24.0	4.0	230FJ4470*1#
0.56	57.5	35.0	50.0	870	487	24.0	3.9	230FJ4560*1#
0.82	57.5	42.5	56.0	870	714	27.0	3.1	230FJ4820*1#

*可根据用户需求，提供定制产品。*Special design available to meet your requirements.

产品特点

引用标准 : IEC 61071

介质 : 金属化聚丙烯薄膜

结构 : 干式无感结构, 塑料外壳封装, 树脂填充 (UL94 V-0)

电气特性

工作温度 : - 40 °C 至 + 105 °C

容量范围 : 2×0.22 至 2×3.0μF

额定电压 : 700 至 1700 VDC

容量偏差 : ± 5% , ± 10%

损耗因素 : $\leq 6 \times 10^{-4}$ @ 1KHz, 20±5°C

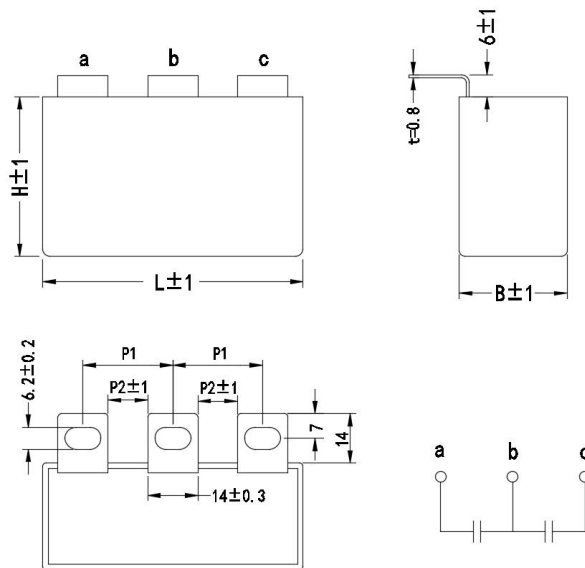
预期寿命 : 100,000 小时 @ Un, 70 °C (热点温度)

极间耐压 : 1.5Un (DC) @ 10s, 20±5°C

极壳耐压 : (1.5Un+1000)VAC, 最小 3000VAC (10s,50Hz)

绝缘电阻 : (IR×Cn) 30000s (不超过 30GΩ), 100VDC (20±5°C) , 1 分钟

应用 三电平 IGBT 突波吸收 嵌位



*可根据用户需求，提供定制产品。

Cap (μF)	Dimention(mm)			du/dt (v/μs)	Ipeak (A)	Ls (nH)	Irms@60°C @10kHz(A)	ESR@100 kHz(mΩ)	Ordering Code
	L	B	H						
Un 700VDC , Urms 380VAC , Us 1050V									
2×1.0	72.5	30.0	45.0	325	325	≤35	2×16.9	2×3.2	170FJS2×1.0K1CX
2×1.2	72.5	30.0	45.0	325	390	≤35	2×17.5	2×3.0	170FJS2×1.2K1CX
2×1.5	72.5	30.0	45.0	325	488	≤35	2×18.5	2×2.7	170FJS2×1.5K1CX
2×2.0	72.5	30.0	45.0	325	650	≤35	2×19.7	2×2.3	170FJS2×2.0K1CX
2×2.2	72.5	30.0	45.0	325	715	≤35	2×20.4	2×2.2	170FJS2×2.2K1CX
2×2.5	84.0	30.0	45.0	325	813	≤35	2×22.5	2×2.0	170FJS2×2.5K1CX
2×3.0	84.0	30.0	45.0	325	975	≤35	2×23.9	2×1.8	170FJS2×3.0K1CX
Un 1200VDC , Urms 500VAC , Us 1800V									
2×0.47	72.5	30.0	45.0	650	306	≤35	2×14.3	2×4.5	212FJS2×0.47K1CX
2×0.56	72.5	30.0	45.0	650	364	≤35	2×15.3	2×3.9	212FJS2×0.56K1CX
2×0.68	72.5	30.0	45.0	650	442	≤35	2×16.5	2×3.3	212FJS2×0.68K1CX
2×0.82	72.5	30.0	45.0	650	533	≤35	2×17.2	2×3.1	212FJS2×0.82K1CX
2×1.0	72.5	30.0	45.0	650	650	≤35	2×18.1	2×2.8	212FJS2×1.0K1CX
2×1.2	84.0	30.0	45.0	650	780	≤35	2×20.5	2×2.4	212FJS2×1.2K1CX
2×1.5	84.0	30.0	45.0	650	975	≤35	2×21.8	2×2.2	212FJS2×1.5K1CX
Un 1700VDC , Urms 575VAC , Us 2550V									
2×0.22	72.5	30.0	45.0	880	194	≤35	2×11.6	2×6.7	217FJS2×0.22K1CX
2×0.33	72.5	30.0	45.0	880	290	≤35	2×13.2	2×5.2	217FJS2×0.33K1CX
2×0.47	72.5	30.0	45.0	880	414	≤35	2×15.1	2×4.0	217FJS2×0.47K1CX
2×0.56	72.5	30.0	45.0	880	493	≤35	2×16.2	2×3.5	217FJS2×0.56K1CX
2×0.68	72.5	30.0	45.0	880	598	≤35	2×17.2	2×3.1	217FJS2×0.68K1CX
2×0.82	84.0	30.0	45.0	880	722	≤35	2×19.6	2×2.7	217FJS2×0.82K1CX
2×1.0	84.0	30.0	45.0	880	880	≤35	2×20.3	2×2.5	217FJ2×1.0K1CX