



- | | |
|--|--|
| <ul style="list-style-type: none"> ■ Features ● Widely used in high voltage, high frequency circuit ● Low loss and small inherent temperature rise ● Excellent active and passive flame resistant circuit ● Especially designed as snubber capacitor for IGBT | <ul style="list-style-type: none"> ■ 特点 ■ 广泛应用于高压高频脉冲电路中 ■ 损耗小, 内部温升小 ■ 优异的阻燃性能 ■ 适合作为 IGBT 的吸收电容 |
|--|--|

■ 外型图 Dimensions

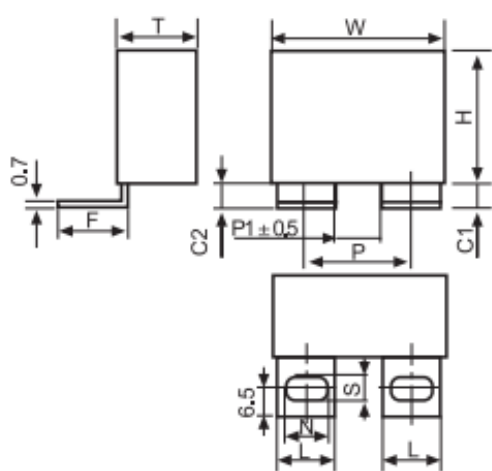


图 1 (Style 1)

L x F x N x S=14,0 x 16,0 x 10,2 x 6,2

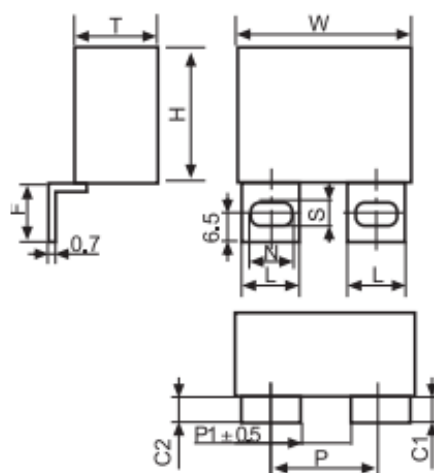
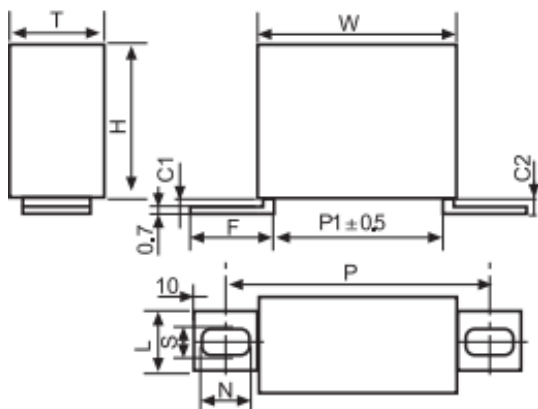


图 2 (Style 2)



L x F x N x S=14,0 x 22,0 x 11,2 x 6,2
or
L x F x N x S=12,0 x 22,0 x 11,2 x 6,2

图 3 (Style 3)

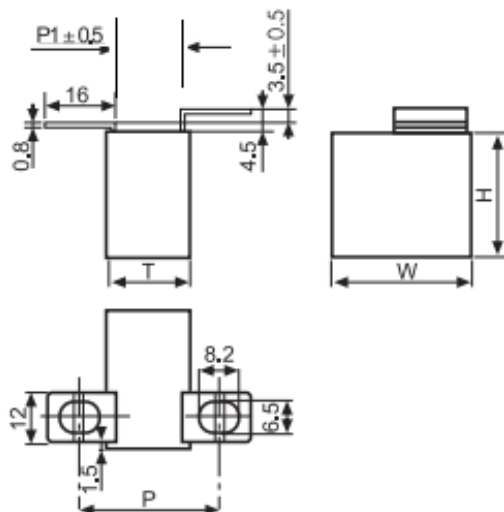


图 4 (Style 4)



■ 安装孔距的选择 Selecting for distance of hole for fixing


单位: mm

额定电压 D. C. rated voltage	焊片的引出方式 Style of solder slice	外壳宽度 Width of case	焊片间距 The distance of solder slice	安装孔距 Distance of hole for fixing	
		W	P1	P	Code
850V--3000V	图 1 (Style 1) 或 图 2 (Style 2)	37/42	6	16-24	A
			11	21-29	B
	57	21	31-39	C	
		26	36-44	D	
	图 3 (Style 3)	37	33	52-62	E
		42	38	57-67	F
		57	53	72-82	G

■ 安装孔距的选择 Selecting for distance of hole for fixing

额定电压 D. C. rated voltage	焊片的引出方式 Style of solder slice	外壳厚度 Thickness of case	焊片间距 The distance of solder slice	安装孔距 Distance of hole for fixing	
		T	P1	P	Code
850V—3000V	图 4 (Style 4)	20	15	30-34	H
		24	21	36-40	I
		30	26	41-45	J

■ 标识 Marking

 CBB161 ——— 1 1uF K 850V ——— 2 C29F05 ——— 3	N0	项 目 Item
	1	商标和产品系列 Brand and Products series
	2	容量、偏差以及额定电压 Capacitance 、 Tolerance and Rated voltage
	3	年度标记 Year code



■ 性能特性 Specifications

项目 Item	特性 Characteristics
引用标准 Reference Standard	GB/T 17702 (IEC 61071)
气候类别 Climatic Category	40/85/56
工作温度范围 Operating Temperature Range	-40~+85 °C [$\theta_{\max(\text{hotspot})} \leq 85^\circ\text{C}$]
存储温度范围 Storage Temperature Range	-40~+85 °C
额定电压 U_R Rated Voltage	850---3000 V _{DC}
电容量范围 Capacitance Range	0.047 ~ 6.5 μF
电容量偏差 Capacitance Tolerance	$\pm 5\%$ (J), $\pm 10\%$ (K), $\pm 20\%$ (M)
端子与端子电压 U_{TT} Voltage Between Terminals	$1.5 \times U_{RDC}$, 10S
端子与铝壳电压 U_{TC} Voltage Between Terminals and Case	$2 \times U + 1000$ or 3000 (V _{AC}) 取大者, 10s (20°C, 50Hz)
损耗角正切 Dissipation Factor	0.0005 (20°C, 1KHz)
绝缘电阻 Insulation Resistance	$\geq 30000 \text{ M}\Omega \cdot \mu\text{F}$ (20°C, 100V _{DC} , 1min)
失效率 Failure Rate	50 Fit



规格标准 Standard Ratings

U_R (V)	C_R (μF)	P/N	dV/dt (V/ μS)	\hat{I} (A)	ESR max@100kHz (m Ω)	L_s (nH)	I_{max} 100 kHz @70 $^{\circ}C$ (A)	W \pm 1.0	H \pm 1.0	T \pm 1.0
850Vdc (450Vac)	0.47	FCSK2IL474KC**	1200	564	5.0	23	15.0	37.0	25.0	15.0
	0.68	FCSK2IL684KC**	1200	816	5.0	23	16.0	37.0	30.0	16.0
	1.0	FCSK2IL105KC**	1200	1200	5.0	23	17.0	37.0	34.0	20.0
	1.2	FCSK2IL125KC**	1200	1440	5.0	23	17.5	37.0	34.0	20.0
	1.5	FCSK2IL155KC**	1200	1800	5.0	23	18.0	37.0	34.0	20.0
	1.5	FCSK2IL155KF**	750	1125	4.5	29	18.5	42.0	40.0	20.0
	2.0	FCSK2IL205KF**	750	1500	4.5	29	19.0	42.0	40.0	20.0
	2.2	FCSK2IL225KF**	750	1650	4.5	29	19.5	42.0	40.0	20.0
	2.5	FCSK2IL255KF**	750	1875	4.5	29	20.0	42.0	44.0	24.0
	3.0	FCSK2IL305KF**	750	2250	4.5	29	21.0	42.0	44.0	24.0
	3.3	FCSK2IL335KF**	750	2475	4.5	29	21.5	42.0	45.0	30.0
	4.0	FCSK2IL405KF**	750	3000	4.5	29	22.0	42.0	43.0	42.0
	4.0	FCSK2IL405KH**	450	1800	4.0	33	23.0	57.0	45.0	30.0
	4.7	FCSK2IL475KH**	450	2115	4.0	33	24.5	57.0	45.0	30.0
	5.0	FCSK2IL505KH**	450	2250	4.0	33	25.0	57.0	45.0	30.0
	6.0	FCSK2IL605KH**	450	2700	4.0	33	26.0	57.0	50.0	35.0
6.5	FCSK2IL655KH**	450	2925	4.0	33	27.0	57.0	50.0	35.0	
1000 Vdc (500 Vac)	0.47	FCS3AIL474KC**	1300	611	5.0	23	14.0	37.0	25.0	15.0
	0.47	FCS3AIL474KC**	2200	1034	4.0	15	21.0	37.0	29.0	19.0
	0.68	FCS3AIL684KC**	1300	884	5.0	23	15.0	37.0	30.0	16.0
	0.82	FCS3AIL824KC**	1300	1066	5.0	23	16.0	37.0	30.0	16.0
	1.0	FCS3AIL105KC**	1300	1300	4.5	23	17.0	37.0	34.0	20.0
	1.2	FCS3AIL125KC**	1300	1560	4.5	23	17.0	37.0	34.0	20.0
	1.2	FCS3AIL125KF**	850	1020	4.5	29	16.0	42.0	40.0	20.0
	1.5	FCS3AIL155KF**	850	1275	4.5	29	16.0	42.0	40.0	20.0
	2.0	FCS3AIL205KF**	850	1700	4.5	29	17.0	42.0	44.0	24.0
	2.2	FCS3AIL225KF**	850	1870	4.0	29	20.0	42.0	44.0	24.0
	2.5	FCS3AIL255KF**	850	2125	4.0	29	21.0	42.0	45.0	30.0
	3.0	FCS3AIL305KF**	850	2550	4.0	29	21.5	42.0	45.0	30.0
	3.3	FCS3AIL335KF**	850	2805	4.0	29	22.0	42.0	43.0	42.0
	3.3	FCS3AIL335KH**	500	1650	4.0	33	20.0	57.0	45.0	30.0
	4.0	FCS3AIL405KH**	500	2000	4.0	33	21.0	57.0	45.0	30.0
	4.7	FCS3AIL475KH**	500	2350	4.0	33	22.0	57.0	50.0	35.0
5.0	FCS3AIL505KH**	500	2500	4.0	33	23.0	57.0	50.0	35.0	
1200Vdc (600 Vac)	0.33	FCS3BIL334KC**	1500	495	4.5	23	15.0	37.0	25.0	15.0
	0.47	FCS3BIL474KC**	1500	705	4.5	23	16.0	37.0	30.0	16.0
	0.68	FCS3BIL684KC**	1500	1020	4.5	23	17.0	37.0	34.0	20.0
	0.75	FCS3BIL754KC**	1500	1125	4.5	23	18.0	37.0	34.0	20.0
	0.82	FCS3BIL824KF**	950	779	4.0	29	18.0	42.0	40.0	20.0
	1.0	FCS3BIL105KF**	950	950	4.0	29	19.0	42.0	40.0	20.0
	1.2	FCS3BIL125KF**	950	1140	4.0	29	19.0	42.0	44.0	24.0
	1.5	FCS3BIL155KF**	950	1425	4.0	29	19.5	42.0	44.0	24.0
	2.0	FCS3BIL205KF**	950	1900	4.0	29	20.0	42.0	45.0	30.0
	2.2	FCS3BIL225KF**	950	2090	4.0	29	21.0	42.0	43.0	42.0
	2.5	FCS3BIL255KF**	950	2375	4.0	29	22.0	42.0	43.0	42.0
	2.2	FCS3BIL225KH**	600	1320	3.8	33	20.0	57.0	45.0	30.0
	2.5	FCS3BIL255KH**	600	1500	3.8	33	21.0	57.0	45.0	30.0
	3.0	FCS3BIL305KH**	600	1800	3.8	33	22.0	57.0	45.0	30.0
	3.3	FCS3BIL335KH**	600	1980	3.8	33	23.0	57.0	50.0	35.0
	4.0	FCS3BIL405KH**	600	2400	3.8	33	24.0	57.0	50.0	35.0



CBB161 IL SERIES

U_R (V)	C_R (μF)	P/N	dV/dt (V/ μS)	\hat{I} (A)	ESR max@ 100kHz (m Ω)	L_s (nH)	I_{max} 100kHz @70°C (A)	$W \pm 1.0$	$H \pm 1.0$	$T \pm 1.0$
1600Vdc (650 Vac)	0.22	FCS3CIL224KC**	1900	418	6.0	23	15.0	37.0	25.0	15.0
	0.33	FCS3CIL334KC**	1900	627	6.0	23	15.5	37.0	30.0	16.0
	0.39	FCS3CIL394KC**	1900	741	5.5	23	16.0	37.0	34.0	20.0
	0.47	FCS3CIL474KC**	1900	893	5.5	23	17.0	37.0	34.0	20.0
	0.68	FCS3CIL684KF**	1250	850	3.5	29	18.0	42.0	40.0	20.0
	0.82	FCS3CIL824KF**	1250	1025	3.5	29	19.0	42.0	44.0	24.0
	1.0	FCS3CIL105KF**	1250	1250	3.5	29	19.5	42.0	45.0	30.0
	1.2	FCS3CIL125KF**	1250	1500	3.5	29	20.0	42.0	45.0	30.0
	1.5	FCS3CIL155KF**	1250	1875	3.5	29	21.0	42.0	43.0	42.0
	1.5	FCS3CIL155KH**	750	1125	3.0	33	22.0	57.0	45.0	30.0
2.0	FCS3CIL205KH**	750	1500	3.0	33	24.0	57.0	50.0	35.0	
2000Vdc (700 Vac)	0.1	FCS3DIL104KC**	2250	225	8.0	23	14.0	37.0	25.0	15.0
	0.15	FCS3DIL154KC**	2250	338	8.0	23	15.0	37.0	25.0	15.0
	0.22	FCS3DIL224KC**	2250	495	6.0	23	15.5	37.0	30.0	16.0
	0.33	FCS3DIL334KC**	2250	742	6.0	23	16.0	37.0	34.0	20.0
	0.47	FCS3DIL474KF**	1300	611	4.0	29	17.0	42.0	40.0	20.0
	0.56	FCS3DIL564KF**	1300	728	4.0	29	18.0	42.0	44.0	24.0
	0.68	FCS3DIL684KF**	1300	884	3.5	29	18.5	42.0	44.0	24.0
	0.82	FCS3DIL824KF**	1300	1066	3.5	29	19.0	42.0	45.0	30.0
	1.0	FCS3DIL105KF**	1300	1300	3.5	29	21.0	42.0	43.0	42.0
	1.0	FCS3DIL105KH**	850	850	4.0	33	24.0	57.0	45.0	30.0
1.2	FCS3DIL125KH**	850	1020	4.0	33	23.0	57.0	45.0	30.0	
1.5	FCS3DIL155KH**	850	1275	4.0	33	24.0	57.0	50.0	35.0	
2500Vdc (725 Vac)	0.068	FCS3EIL683KC**	2900	198	8.5	23	14.0	37.0	25.0	15.0
	0.1	FCS3EIL104KC**	2900	290	8.5	23	15.0	37.0	30.0	16.0
	0.15	FCS3EIL154KC**	2900	435	8.0	23	16.0	37.0	34.0	20.0
	0.18	FCS3EIL184KC**	2900	522	7.5	23	17.0	37.0	34.0	20.0
	0.22	FCS3EIL224KF**	2100	462	4.0	29	17.0	42.0	40.0	20.0
	0.33	FCS3EIL334KF**	2100	693	4.0	29	17.5	42.0	44.0	24.0
	0.47	FCS3EIL474KF**	2100	987	3.5	29	18.0	42.0	45.0	30.0
	0.68	FCS3EIL684KF**	2100	1428	3.5	29	18.5	42.0	43.0	42.0
	0.68	FCS3EIL684KH**	1200	816	3.5	33	19.0	57.0	45.0	30.0
	1.0	FCS3EIL105KH**	1200	1200	3.5	33	19.5	57.0	50.0	35.0
3000Vdc (750 Vac)	0.047	FCS3FIL473KC**	3360	158	8.5	23	13.0	37.0	25.0	15.0
	0.068	FCS3FIL683KC**	3360	229	8.0	23	14.0	37.0	30.0	16.0
	0.10	FCS3FIL104KC**	3360	336	7.5	23	15.0	37.0	34.0	20.0
	0.15	FCS3FIL154KC**	3360	504	7.0	23	15.5	37.0	34.0	20.0
	0.22	FCS3FIL224KF**	2050	451	5.0	29	16.0	42.0	40.0	20.0
	0.33	FCS3FIL334KF**	2050	677	4.5	29	16.5	42.0	45.0	30.0
	0.47	FCS3FIL474KF**	2050	964	4.0	29	18.0	42.0	43.0	42.0
	0.47	FCS3FIL474KH**	1200	564	4.0	33	18.5	57.0	45.0	30.0
	0.68	FCS3FIL684KH**	1200	816	4.0	33	19.0	57.0	50.0	35.0
	0.82	FCS3FIL824KH**	1200	984	3.5	33	20.0	57.0	50.0	35.0

可根据客户要求定制。Customer products are available on request.