

## 代码编制规则 Part Number

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
F	C	S	3	B	I	L	1	0	5	K	A	F	C	2	6	1	2	1	4	1
电容器类型 Capacitor Type	产品外形 Product Shape	额定电压代码 Rated Voltage Code (DC)	系列代码 Series Code	容量代码 Capacitance Code	容量偏差 Capacitance Tolerance	样式 Plate style	外壳尺寸* Dimension Code W×H×T		中心孔距 Nominal pitch P1	焊片间距 Gap between plates P2	焊片宽度Wp Width of plates Wp	孔规格 Holeshape								
FC=薄膜电容器 FC=Film Capacitor	方型=S Square=S	700=2Q	CBB161=IL	0.22=224	±5%=J	style1=A	42.5×35.5×33.5=FC		24=24	10=10	10=10	ø6.5=0								
		850=K2		1.0=105	±10%=K	style2=B			26=26	11=11	12=12	6.5×8.5=1								
		1000=3A		1.8=185	special=S	style3=C			40=40	26=26	14=14	ø8.5=0								
		1200=3B		2.5=255											8.5×10.5=3					
		1600=3C		3.0=305											6.5×10.5=7					
		2000=3D		4.0=405											9×12=5					
				4.2=425											ø5.5=A					
				4.5=455																
				6=605																
				7.5=755																

\*外壳尺寸表

## Features

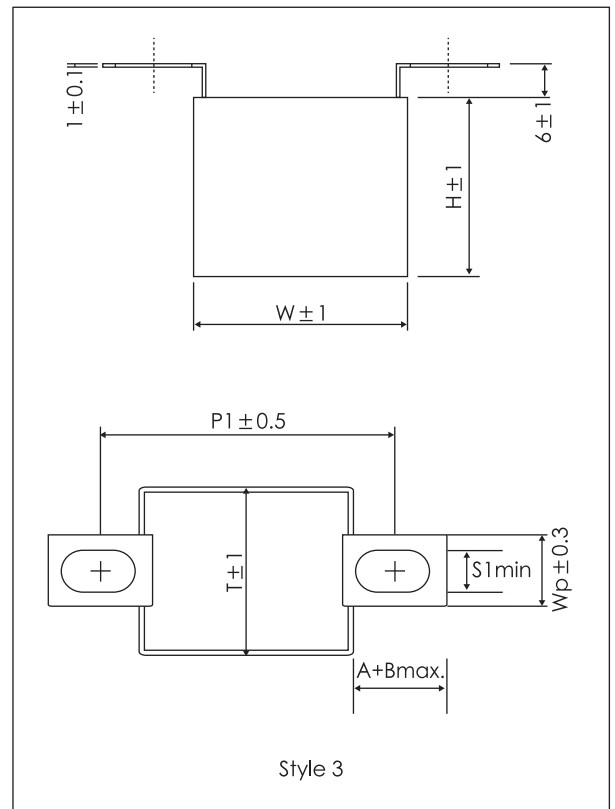
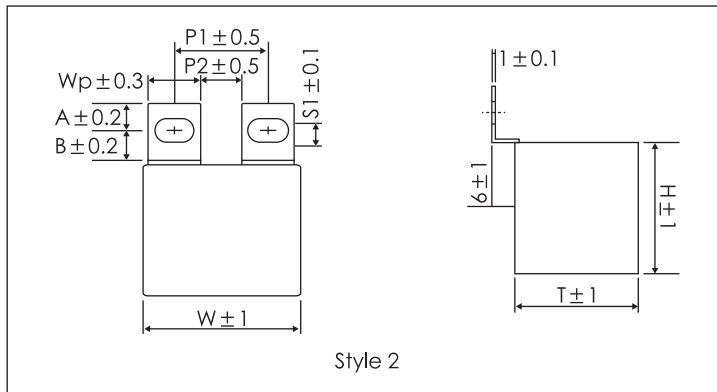
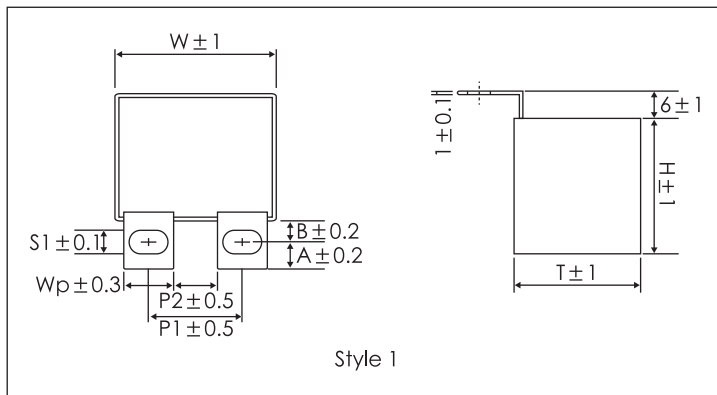
- Widely used in high voltage, high frequency circuit
- Low loss and small inherent temperature rise
- Excellent active and passive flame resistant circuit
- Double side metallized
- Especially designed as snubber capacitor for IGBT

## 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
- 双面金属化
- 适合作为IGBT的吸收电容

## 外形图 Dimensions

Unit: mm



## 标识 Marking

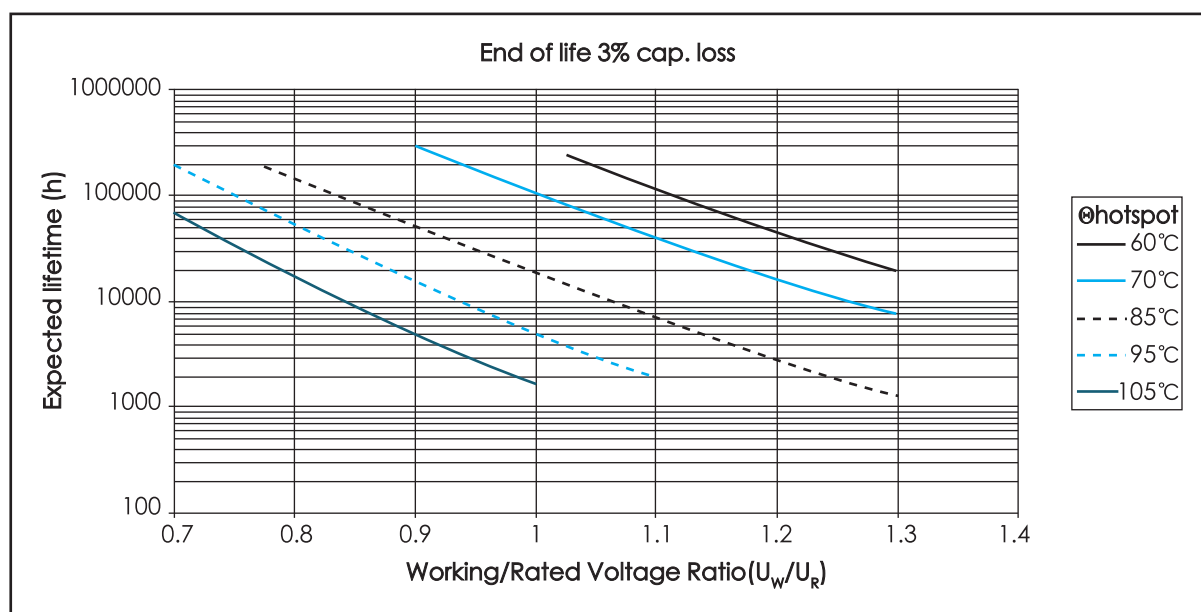
	—	1
CBB161	—	2
1 $\mu$ F K 1200V	—	3
J03F12	—	4

NO.	项目 Item
1	商标 Brand
2	产品系列 Products series
3	容量、偏差以及额定电压 Capacitance、Tolerance and Rated voltage
4	日期代码 Date 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	40/105/56
工作温度范围 Operating Temperature Range	-40~+105 °C [ $\theta_{\text{hotspot}} \leq 105^\circ\text{C}$ ] $\theta_{\text{hotspot}} = 85^\circ\text{C} \sim 105^\circ\text{C}$ : decreasing factor 1.35% per°C for $U_R$ (dc)
存储温度范围 Storage Temperature Range	-40~+105°C
额定电压 $U_R$ Rated Voltage	700~2000V <sub>DC</sub>
电容量范围 Capacitance Range	0.2~7.5μF
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K)
端子与端子电压 $U_{TT}$ Voltage Between Terminals	$1.5 \times U_R V_{DC}$ , 10s (20°C)
端子与铝壳电压 $U_{TC}$ Voltage Between Terminals and Case	$3000 V_{AC}$ , 10s (20°C, 50Hz)
损耗角正切 Dissipation Factor	$\leq 0.0005$ (20°C, 1kHz)
介质损耗角正切 Dielectric Dissipation Factor	0.0002
绝缘电阻 Insulation Resistance	$\geq 30000 M\Omega \cdot \mu F$ (20°C, 100V <sub>DC</sub> , 1min)
预期寿命 Life Expectancy	100000 hours ( $U_R$ , $\theta_{\text{hotspot}} = 70^\circ\text{C}$ )
失效率 Failure Rate	50 FIT

## 预期寿命曲线 Expected lifetime curve



## 规格标准 Standard Ratings

U <sub>R</sub>	C <sub>R</sub>	P/N	dV/dt	I	R <sub>s</sub>	I <sub>max</sub>	W	H	T
(V)	(μF)	-	(V/μs)	(A)	100KHz (mΩ)	100KHz @70°C(A)	(mm)	(mm)	(mm)
700	1.20	FCS2QIL125**FA*****	325	390	10	12.4	42.5	28	24
	1.80	FCS2QIL185**FD*****	325	585	8	16.8	42.5	36	24
	2.20	FCS2QIL225**FB*****	325	715	7	18.8	42.5	33	33
	2.50	FCS2QIL255**FC*****	325	813	6	20.3	42.5	35.5	33.5
	3.00	FCS2QIL305**FF*****	325	975	5	22.4	42.5	45	30
	4.00	FCS2QIL405**FE*****	325	1300	4	25	42.5	43	42
	4.20	FCS2QIL425**HG*****	260	1092	3	26	57.5	43.5	29.5
	4.50	FCS2QIL455**HH*****	260	1170	3	26	57.5	45	30
	5.00	FCS2QIL505**HJ*****	260	1300	3	27	57.5	45	35
	5.50	FCS2QIL555**HL*****	260	1430	2	27	57.5	50	35
6.00	FCS2QIL605**HK*****	260	1560	2	28	57.5	45	45	
7.50	FCS2QIL755**HM*****	260	1950	2	30	57.5	55	40	
850	0.47	FCSK2IL474**FA*****	650	306	10	11.5	42.5	28	24
	0.70	FCSK2IL704**FD*****	650	455	10	15.3	42.5	36	24
	0.80	FCSK2IL804**FB*****	650	520	9	17.2	42.5	33	33
	0.80	FCSK2IL804**FA*****	650	520	10	11.8	42.5	28	24
	1.00	FCSK2IL105**FC*****	650	650	8	18.6	42.5	35.5	33.5
	1.20	FCSK2IL125**FF*****	650	780	7	20.6	42.5	45	30
	1.20	FCSK2IL125**FD*****	650	780	9	15.6	42.5	36	24
	1.50	FCSK2IL155**FE*****	650	975	6	22	42.5	43	42
	1.50	FCSK2IL155**HG*****	455	683	6	22	57.5	43.5	29.5
	1.50	FCSK2IL155**FB*****	650	975	8	17.6	42.5	33	33
	1.80	FCSK2IL185**HH*****	455	819	6	23	57.5	45	30
	1.80	FCSK2IL185**FC*****	650	1170	7	19.8	42.5	35.5	33.5
	2.00	FCSK2IL205**HJ*****	455	910	5	24	57.5	45	35
	2.20	FCSK2IL225**HL*****	455	1001	5	24	57.5	50	35
	2.20	FCSK2IL225**FF*****	650	1430	6	21.5	42.5	45	30
	2.50	FCSK2IL255**HK*****	455	1138	4	25	57.5	45	45
	2.80	FCSK2IL285**FE*****	650	1820	5	24	42.5	43	42
	3.00	FCSK2IL305**HM*****	455	1365	4	26	57.5	55	40
	3.00	FCSK2IL305**HG*****	455	1365	4	24	57.5	43.5	29.5
	3.00	FCSK2IL305**HH*****	455	1365	4	25	57.5	45	30
3.50	FCSK2IL355**HJ*****	455	1592	4	25	57.5	45	35	
4.50	FCSK2IL455**HL*****	455	2047	3	27	57.5	50	35	
5.00	FCSK2IL505**HK*****	455	2275	3	27	57.5	45	45	
5.00	FCSK2IL505**HM*****	455	2275	2	29	57.5	55	40	
1000	0.65	FCS3AIL654**FA*****	500	325	10	11.6	42.5	28	24
	1.00	FCS3AIL105**FD*****	500	500	9	15.5	42.5	36	24
	1.20	FCS3AIL125**FB*****	500	600	8	17.5	42.5	33	33
	1.40	FCS3AIL145**FC*****	500	700	7	18.8	42.5	35.5	33.5
	1.80	FCS3AIL185**FF*****	500	900	6	21	42.5	45	30
	2.20	FCS3AIL225**FE*****	500	1100	5	23	42.5	43	42
	2.20	FCS3AIL225**HC*****	350	770	6	23	57.5	43.5	29.5
	2.50	FCS3AIL255**HH*****	350	875	5	24	57.5	45	30
	3.00	FCS3AIL305**HJ*****	350	1050	5	24	57.5	45	35
	3.30	FCS3AIL335**HL*****	350	1155	4	25	57.5	50	35
3.50	FCS3AIL355**HK*****	350	1225	4	25	57.5	45	45	
4.50	FCS3AIL455**HM*****	350	1575	4	28	57.5	55	40	
1200	0.33	FCS3BIL334**FA*****	800	264	11	11.4	42.5	28	24
	0.47	FCS3BIL474**FA*****	800	376	10	11.5	42.5	28	24
	0.50	FCS3BIL504**FD*****	800	400	10	15	42.5	36	24
	0.60	FCS3BIL604**FB*****	800	480	9	16.8	42.5	33	33
	0.70	FCS3BIL704**FD*****	800	560	10	15.3	42.5	36	24
	0.70	FCS3BIL704**FC*****	800	560	9	18.4	42.5	35.5	33.5
	0.80	FCS3BIL804**FF*****	800	640	8	20.5	42.5	45	30
	0.80	FCS3BIL804**FB*****	800	640	9	17.2	42.5	33	33
	1.00	FCS3BIL105**FE*****	800	800	7	21	42.5	43	42
	1.00	FCS3BIL105**HG*****	560	560	6	22	57.5	43.5	29.5
	1.00	FCS3BIL105**FC*****	800	800	8	18.6	42.5	35.5	33.5
	1.20	FCS3BIL125**HH*****	560	672	6	22	57.5	45	30
	1.20	FCS3BIL125**FF*****	800	960	7	20.6	42.5	45	30
	1.40	FCS3BIL145**HJ*****	560	784	5	23	57.5	45	35
	1.50	FCS3BIL155**FE*****	800	1200	6	22	42.5	43	42
	1.50	FCS3BIL155**HG*****	560	840	6	22	57.5	43.5	29.5
	1.60	FCS3BIL165**HL*****	560	896	5	23	57.5	50	35
	1.70	FCS3BIL175**HK*****	560	952	4	24	57.5	45	45
	1.80	FCS3BIL185**HH*****	560	1008	6	23	57.5	45	30
	2.00	FCS3BIL205**HJ*****	560	1120	5	24	57.5	45	35
2.00	FCS3BIL205**HM*****	560	1120	4	25	57.5	55	40	
2.20	FCS3BIL225**HL*****	560	1232	5	24	57.5	50	35	
2.50	FCS3BIL255**HK*****	560	1400	4	25	57.5	45	45	
3.00	FCS3BIL305**HM*****	560	1680	4	26	57.5	55	40	

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## 规格标准 Standard Ratings

$U_R$	$C_R$	P/N	dV/dt	$I$	$R_s$	$I_{max}$	W	H	T
(V)	( $\mu$ F)	-	(V/ $\mu$ s)	(A)	100KHz (m $\Omega$ )	100KHz @70°C(A)	(mm)	(mm)	(mm)
1600	0.33	FCS3CIL334**FA*****	800	264	11	11.4	42.5	28	24
	0.50	FCS3CIL504**FD*****	800	400	10	15	42.5	36	24
	0.60	FCS3CIL604**FB*****	800	480	9	16.8	42.5	33	33
	0.70	FCS3CIL704**FC*****	800	560	9	18.4	42.5	35.5	33.5
	0.80	FCS3CIL804**FF*****	800	640	8	20.5	42.5	45	30
	1.00	FCS3CIL105**FE*****	800	800	7	21	42.5	43	42
	1.00	FCS3CIL105**HC*****	560	560	6	22	57.5	43.5	29.5
	1.20	FCS3CIL125**HH*****	560	672	6	22	57.5	45	30
	1.40	FCS3CIL145**HJ*****	560	784	5	23	57.5	45	35
	1.60	FCS3CIL165**HL*****	560	896	5	23	57.5	50	35
	1.70	FCS3CIL175**HK*****	560	952	4	24	57.5	45	45
2.00	FCS3CIL205**HM*****	560	1120	4	25	57.5	55	40	
2000	0.20	FCS3DIL204**FA*****	1000	200	11	11.3	42.5	28	24
	0.30	FCS3DIL304**FD*****	1000	300	11	14.9	42.5	36	24
	0.39	FCS3DIL394**FB*****	1000	390	10	16.6	42.5	33	33
	0.42	FCS3DIL424**FC*****	1000	420	9	18.2	42.5	35.5	33.5
	0.56	FCS3DIL564**FF*****	1000	560	9	20.1	42.5	45	30
	0.70	FCS3DIL704**FE*****	1000	700	8	20	42.5	43	42
	0.75	FCS3DIL754**HC*****	720	540	8	21	57.5	43.5	29.5
	0.82	FCS3DIL824**HH*****	720	590	7	21	57.5	45	30
	0.90	FCS3DIL904**HJ*****	720	648	6	22	57.5	45	35
	1.00	FCS3DIL105**HL*****	720	720	6	22	57.5	50	35
	1.20	FCS3DIL125**HK*****	720	864	5	22	57.5	45	45
1.40	FCS3DIL145**HM*****	720	1008	4	24	57.5	55	40	

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