

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
F	C	S	3	C	I	G	1	5	4	K	B	I	F	2	7	0	0	B
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	引线类型 Pin Style	外壳尺寸代码* Dimension Code	引线间距 Pitch P1	引线间距 Pitch P2	引线直径 Lead diameter						
FC=Film Capacitor	Square=S	700=2Q	CBB166=IG			0.56=564	±5%=J	4Pin, 5mm=A	32×33×18=IF	27.5=27	0=00	0.6=A						
		850=K2					±10%=K	2Pin, 5mm=B		37.5=37	10.2=10	0.8=B						
		1000=3A					4pin, 4mm=S	52.5=52		12.7=12	1.0=C							
		1200=3B					2pin, 8.2mm=E	20.3=20		1.2=D								
		1600=3C					2pin, 9.2mm=D											
		2000=3D					2pin, 长引线=C											
		630=J2					2pin, 3.2mm=V											
							2pin, 3.5mm=U											
	2pin, 4.5mm=T																	

Features

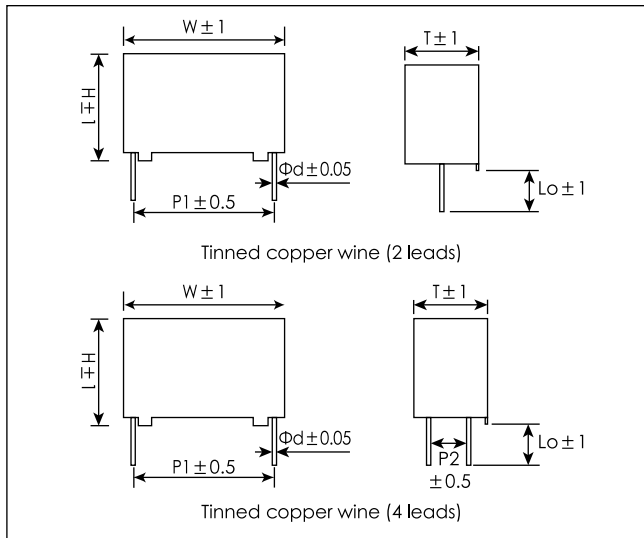
- Widely used in high voltage, high frequency circuit
- Low loss and small inherent temperature rise
- Excellent active and passive flame resistant circuit
- Double side metallized
- Especially designed as snubber capacitor for IGBT

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
CBB166	—	2
1 μF J 1200V	—	3
J08F15	—	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 $U_R(\text{dc})$
存储温度范围 Storage Temperature Range	-40~+105°C
额定电压 U_R Rated Voltage	850~2000V _{DC}
电容量范围 Capacitance Range	0.033~5.0 μF
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 U_{NDC} , 10s (20°C)
端子与外壳电压 U_{TC} Voltage Between Terminals and Case	3000 V _{AC} , 10 s (20°C, 50 Hz)
损耗角正切 Dissipation Factor	≤ 0.001 (20°C, 1KHz)
介质损耗角正切 Dielectric Dissipation Factor	0.0002
绝缘电阻 Insulation Resistance	≥ 3000 MΩ · μF (20°C, 100V _{DC} , 1 min)
预期寿命 Life Expectancy	100000 hours ($U_R, \theta_{\text{hotspot}} = 70^\circ\text{C}$)
失效率 Failure Rate	100 FIT

规格标准 Standard Ratings

U _R	C _R	P/N	W	H	T	P ₁	P ₂	I _{max}	f	Rs	Ls	dv/dt	D
(V _{dc})	(μF)	-	(mm)	(mm)	(mm)	(mm)	(mm)	70°C(A)	(A)	(mΩ)	(nH)	(V/μs)	(mm)
850Vdc (450Vac)	0.15	FCSK2IG154**I42700B	32.0	20.0	11.0	27.5	\	8	195	14.5	24	1300	0.8
	0.22	FCSK2IG224**I72700B	32.0	22.0	13.0	27.5	\	10	286	10.5	24	1300	0.8
	0.33	FCSK2IG334**IC2700B	32.0	28.0	14.0	27.5	\	13	429	7.6	26	1300	0.8
	0.47	FCSK2IG474**IF2700B	32.0	33.0	18.0	27.5	\	14	611	5.8	26	1300	0.8
	0.68	FCSK2IG684**II2700B	32.0	37.0	22.0	27.5	\	16	884	4.6	28	1300	0.8
	1.00	FCSK2IG105*AF23710C	42.5	40.0	20.0	37.5	10.2	22	800	5.9	30	800	1.0
	2.00	FCSK2IG205*AF93710C	42.5	44.0	24.0	37.5	10.2	29	1600	3.9	30	800	1.0
	3.00	FCSK2IG305*AHH5220D	57.5	45.0	30.0	52.5	20.3	29	1500	5.0	35	500	1.2
	4.00	FCSK2IG405*AHH5220D	57.5	45.0	30.0	52.5	20.3	29	2000	4.2	35	500	1.2
	5.00	FCSK2IG505*AHL5220D	57.5	50.0	35.0	52.5	20.3	29	2500	3.9	35	500	1.2
1000Vdc (500Vac)	0.15	FCS3AIG154**I42700B	32.0	20.0	11.0	27.5	\	8	210	14.0	24	1400	0.8
	0.22	FCS3AIG224**I72700B	32.0	22.0	13.0	27.5	\	9	308	9.9	24	1400	0.8
	0.33	FCS3AIG334**IC2700B	32.0	28.0	14.0	27.5	\	10	462	7.2	26	1400	0.8
	0.47	FCS3AIG474**IF2700B	32.0	33.0	18.0	27.5	\	12	658	5.6	26	1400	0.8
	0.68	FCS3AIG684**II2700B	32.0	37.0	22.0	27.5	\	14	612	4.4	28	900	0.8
	1.00	FCS3AIG105*AF23710C	42.5	40.0	20.0	37.5	10.2	16	900	5.5	30	900	1.0
	1.50	FCS3AIG155*AF13710C	42.5	37.0	28.0	37.5	10.2	16	1350	4.2	30	900	1.0
	2.00	FCS3AIG205*AF3720D	42.5	45.0	30.0	37.5	20.3	18	1800	3.7	30	900	1.2
	2.20	FCS3AIG225*AF2720D	42.5	45.0	30.0	37.5	20.3	18	1980	3.6	30	900	1.2
	3.00	FCS3AIG305*AHH5220D	57.5	45.0	30.0	52.5	20.3	20	1650	4.7	35	550	1.2
4.00	FCS3AIG405*AHL5220D	57.5	50.0	35.0	52.5	20.3	22	2200	4.2	35	550	1.2	
4.70	FCS3AIG475*AHL5220D	57.5	50.0	35.0	52.5	20.3	24	2585	3.9	35	550	1.2	
1200Vdc (600Vac)	0.10	FCS3BIG104**I42700B	32.0	20.0	11.0	27.5	\	7	160	18.5	24	1600	0.8
	0.15	FCS3BIG154**I72700B	32.0	22.0	13.0	27.5	\	10	240	12.8	24	1600	0.8
	0.22	FCS3BIG224**IC2700B	32.0	28.0	14.0	27.5	\	12	352	9.2	26	1600	0.8
	0.33	FCS3BIG334**IF2700B	32.0	33.0	18.0	27.5	\	14	528	6.7	26	1600	0.8
	0.47	FCS3BIG474**II2700B	32.0	37.0	22.0	27.5	\	14	752	5.3	28	1600	0.8
	0.68	FCS3BIG684*AF23710C	42.5	40.0	20.0	37.5	10.2	16	680	6.6	30	1000	1.0
	1.00	FCS3BIG105*AF23710C	42.5	40.0	20.0	37.5	10.2	18	1000	5.1	30	1000	1.0
	1.20	FCS3BIG125*AF13710C	42.5	37.0	28.0	37.5	10.2	18	1200	4.4	30	1000	1.0
	2.00	FCS3BIG205*AHL5220D	57.5	45.0	30.0	52.5	20.3	20	1200	5.5	35	600	1.2
	2.20	FCS3BIG225*AHH5220D	57.5	45.0	30.0	52.5	20.3	20	1320	5.2	35	600	1.2
2.50	FCS3BIG255*AHH5220D	57.5	45.0	30.0	52.5	20.3	22	1500	4.8	35	600	1.2	
3.00	FCS3BIG305*AHL5220D	57.5	50.0	35.0	52.5	20.3	22	1800	4.5	35	600	1.2	
3.30	FCS3BIG335*AHL5220D	57.5	50.0	35.0	52.5	20.3	24	1980	4.1	35	600	1.2	
1600Vdc (650Vac)	0.10	FCS3CIG104**I72700B	32.0	22.0	13.0	27.5	\	8	190	13.5	24	1900	0.8
	0.15	FCS3CIG154**I82700B	32.0	24.5	13.0	27.5	\	9	285	10.5	24	1900	0.8
	0.18	FCS3CIG184**IC2700B	32.0	28.0	14.0	27.5	\	10	342	9.5	26	1900	0.8
	0.22	FCS3CIG224**IF2700B	32.0	33.0	18.0	27.5	\	12	418	8.0	26	1900	0.8
	0.27	FCS3CIG274**IF2700B	32.0	33.0	18.0	27.5	\	14	513	7.0	26	1900	0.8
	0.33	FCS3CIG334**II2700B	32.0	37.0	22.0	27.5	\	15	627	6.8	28	1900	0.8
	0.39	FCS3CIG394**II2700B	32.0	37.0	22.0	27.5	\	15	741	6.5	28	1900	0.8
	0.47	FCS3CIG474**F53700C	42.5	32.0	19.0	37.5	\	16	588	6.0	30	1250	1.0
	0.68	FCS3CIG684*AF23710C	42.5	40.0	20.0	37.5	10.2	18	850	5.0	30	1250	1.0
	0.82	FCS3CIG824*AF93710C	42.5	44.0	24.0	37.5	10.2	18	1025	5.0	30	1250	1.0
1.00	FCS3CIG105*AF3720D	42.5	45.0	30.0	37.5	20.3	19	1250	4.8	30	1250	1.2	
1.20	FCS3CIG125*AF3720D	42.5	45.0	30.0	37.5	20.3	19	1500	4.8	30	1250	1.2	
1.50	FCS3CIG155*AHH5220D	57.5	45.0	30.0	52.5	20.3	20	1125	4.5	35	750	1.2	
2.00	FCS3CIG205*AHL5220D	57.5	50.0	35.0	52.5	20.3	22	1500	4.2	35	750	1.2	
2000Vdc (700Vac)	0.033	FCS3DIG333**I42700B	32.0	20.0	11.0	27.5	\	5	76	42.5	24	2300	0.8
	0.047	FCS3DIG473**I42700B	32.0	20.0	11.0	27.5	\	6	108	30.5	24	2300	0.8
	0.068	FCS3DIG683**I72700B	32.0	22.0	13.0	27.5	\	8	156	20.8	24	2300	0.8
	0.10	FCS3DIG104**IC2700B	32.0	28.0	14.0	27.5	\	10	230	15.2	26	2300	0.8
	0.15	FCS3DIG154**IF2700B	32.0	33.0	18.0	27.5	\	15	345	10.8	26	2300	0.8
	0.22	FCS3DIG224**IF2700B	32.0	33.0	18.0	27.5	\	17	506	7.8	26	2300	0.8
	0.33	FCS3DIG334*AF23710C	42.5	40.0	20.0	37.5	10.2	16	462	9.4	30	1400	1.0
	0.47	FCS3DIG474*AF93710C	42.5	44.0	24.0	37.5	10.2	18	658	8.3	30	1400	1.0
	0.68	FCS3DIG684*AF3720D	42.5	45.0	30.0	37.5	20.3	20	952	5.5	30	1400	1.2
	1.00	FCS3DIG105*AHH5220D	57.5	45.0	30.0	52.5	20.3	22	850	7.3	35	850	1.2
1.50	FCS3DIG155*AHL5220D	57.5	50.0	35.0	52.5	20.3	24	1275	5.6	35	850	1.2	

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

预期寿命曲线 Expected lifetime curve

