

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	A	I	P	1	0	4	K	B	E	C	1	5	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	CBB162=IP			0.56=564	±5%=J	4Pin, 5mm=A			18×16×10 =EC	10=10	0=00	0.6=A				
		850=K2				0.9=904	±10%=K	2Pin, 5mm=B				15=15	5.1=05	0.8=B				
		1000=3A				1.0=105	Special=S	4pin, 4mm=S				22.5=22	10.2=10	1.0=C				
		1200=3B				1.8=185	2pin, 8.2mm=E			27.5=27		12.7=12	1.2=D					
		1600=3C				2.5=255	2pin, 9.2mm=D			0.5=E								
		2000=3D				3.0=305	2pin, 长引线=C											
		630=J2				5=505	2pin, 3.2mm=V											
		7.5=755				2pin, 3.5mm=U												
						2pin, 4.5mm=T												

*外壳尺寸表

Features

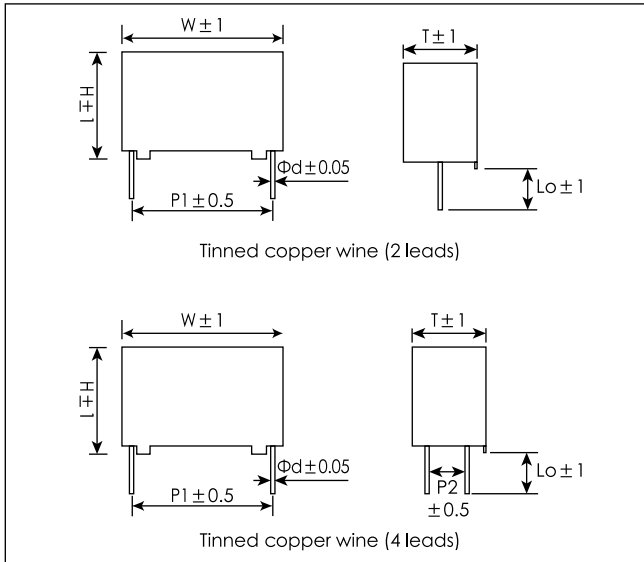
- Widely used in high voltage, high frequency circuit
- Low loss and small inherent temperature rise
- Excellent active and passive flame resistant circuit
- Double side metallized
- Especially designed as snubber capacitor for IGBT

特点

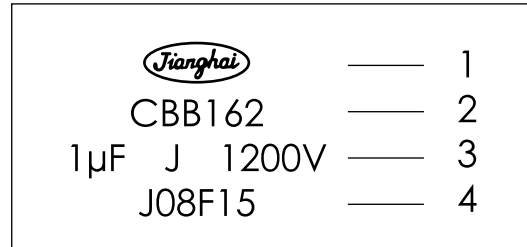
- 广泛应用于高压高频脉冲电路中
- 损耗小，内部温升小
- 优异的阻燃性能
- 双面金属化
- 适合作为IGBT的吸收电容

外形图 Dimensions

Unit:mm



标识 Marking



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 [$\theta_{\text{hotspot}} \leq 105$ °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 _{DC}
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_T Voltage Between Terminals	$1.5 \times U_{NDC} \cdot 10s$ (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	≤ 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 _{DC} , 1min)
预期寿命 Life Expectancy	100000 hours (U_R , $\theta_{\text{hotspot}}=70$ °C)
失效率 Failure Rate	100 FIT

规格标准 Standard Ratings

U _R	C _R	P/N	dV/dt	I	W	H	T	P ₁	d
(V)	(μF)	-	(V/μs)	(A)	(mm)	(mm)	(mm)	(mm)	(mm)
630Vdc (420Vac)	0.0039	FCS2JIP392*BC21000A	3000	11.7	13	9	4	10	0.6
	0.0047	FCS2JIP472*BC21000A	3000	14.1	13	9	4	10	0.6
	0.0056	FCS2JIP562*BC21000A	3000	16.8	13	9	4	10	0.6
	0.0068	FCS2JIP682*BC21000A	3000	20.4	13	9	4	10	0.6
	0.0082	FCS2JIP822*BC21000A	3000	24.6	13	9	4	10	0.6
	0.01	FCS2JIP103*BC41000A	3000	30.0	13	11	5	10	0.6
	0.01	FCS2JIP103*BE21500A	2500	25.0	18	11	5	15	0.6
	0.012	FCS2JIP123*BE21500A	2500	30.0	18	11	5	15	0.6
	0.012	FCS2JIP123*BC41000A	3000	36.0	13	11	5	10	0.6
	0.015	FCS2JIP153*BE21500A	2500	37.5	18	11	5	15	0.6
	0.015	FCS2JIP153*BC51000A	3000	45.0	13	12	6	10	0.6
	0.018	FCS2JIP183*BE21500A	2500	45.0	18	11	5	15	0.6
	0.018	FCS2JIP183*BC51000A	3000	54.0	13	12	6	10	0.6
	0.02	FCS2JIP203*BE21500A	2500	50.0	18	11	5	15	0.6
	0.02	FCS2JIP203*BC81000A	3000	60.0	13	13	7	10	0.6
	0.022	FCS2JIP223*BC81000A	3000	66.0	13	13	7	10	0.6
	0.022	FCS2JIP223*BE21500A	2500	55.0	18	11	5	15	0.6
	0.027	FCS2JIP273*BE51500A	2500	67.5	18	12	6	15	0.6
	0.033	FCS2JIP333*BE51500A	2500	82.5	18	12	6	15	0.6
	0.039	FCS2JIP393*BE51500A	2500	97.5	18	12	6	15	0.6
	0.047	FCS2JIP473*BE71500B	2500	117	18	13.5	7.5	15	0.8
	0.056	FCS2JIP563*BE71500B	2500	140	18	13.5	7.5	15	0.8
	0.068	FCS2JIP683*BE81500B	2500	170	18	14.5	8.5	15	0.8
	0.082	FCS2JIP823*BE1500B	2500	205	18	16	10	15	0.8
	0.1	FCS2JIP104*BE1500B	2500	250	18	16	10	15	0.8
	0.12	FCS2JIP124*BE71500B	2500	300	18	19	11	15	0.8
	0.12	FCS2JIP124*BB22200B	1500	180	26	16.5	7	22.5	0.8
	0.15	FCS2JIP154*BB32200B	1500	225	26	17	8.5	22.5	0.8
	0.18	FCS2JIP184*BB32200B	1500	270	26	17	8.5	22.5	0.8
	0.22	FCS2JIP224*BB42200B	1500	330	26	19	10	22.5	0.8
	0.27	FCS2JIP274*BB52200B	1500	405	26	20	11	22.5	0.8
	0.33	FCS2JIP334*BB52200B	1500	495	26	20	11	22.5	0.8
	0.39	FCS2JIP394*BB62200B	1500	585	26	22	13	22.5	0.8
	0.47	FCS2JIP474**I72700B	900	423	32	22	13	27.5	0.8
	0.56	FCS2JIP564**I72700B	900	504	32	22	13	27.5	0.8
	0.68	FCS2JIP684**I82700B	900	612	32	25	13	27.5	0.8
0.82	FCS2JIP824**IC2700B	900	738	32	28	14	27.5	0.8	
1	FCS2JIP105**IF2700B	900	900	32	33	18	27.5	0.8	
1.2	FCS2JIP125**IF2700B	900	1080	32	33	18	27.5	0.8	
1.5	FCS2JIP155**II2700B	900	1350	32	37	22	27.5	0.8	
1.8	FCS2JIP185**II2700B	900	1620	32	37	22	27.5	0.8	
1000Vdc (500Vac)	0.0039	FCS3AIP392*BC21000A	3000	11.7	13	9	4	10	0.6
	0.0047	FCS3AIP472*BC21000A	3000	14.1	13	9	4	10	0.6
	0.0056	FCS3AIP562*BC21000A	3000	16.8	13	9	4	10	0.6
	0.0068	FCS3AIP682*BC21000A	3000	20.4	13	9	4	10	0.6
	0.0082	FCS3AIP822*BC21000A	3000	24.6	13	9	4	10	0.6
	0.01	FCS3AIP103*BE21500A	2500	25.0	18	11	5	15	0.6
	0.01	FCS3AIP103*BC41000A	3000	30.0	13	11	5	10	0.6
	0.012	FCS3AIP123*BE21500A	2500	30.0	18	11	5	15	0.6
	0.012	FCS3AIP123*BC41000A	3000	36.0	13	11	5	10	0.6
	0.015	FCS3AIP153*BE21500A	2500	37.5	18	11	5	15	0.6
	0.015	FCS3AIP153*BC51000A	3000	45.0	13	12	6	10	0.6
	0.018	FCS3AIP183*BE21500A	2500	45.0	18	11	5	15	0.6
	0.018	FCS3AIP183*BC51000A	3000	54.0	13	12	6	10	0.6
	0.02	FCS3AIP203*BE21500A	2500	50.0	18	11	5	15	0.6
	0.02	FCS3AIP203*BC81000A	3000	60.0	13	13	7	10	0.6
	0.022	FCS3AIP223*BC81000A	3000	66.0	13	13	7	10	0.6
	0.022	FCS3AIP223*BE21500A	2500	55.0	18	11	5	15	0.6
	0.027	FCS3AIP273*BE51500A	2500	67.5	18	12	6	15	0.6
	0.033	FCS3AIP333*BE51500A	2500	82.5	18	12	6	15	0.6
	0.039	FCS3AIP393*BE51500A	2500	97.5	18	12	6	15	0.6
	0.047	FCS3AIP473*BE71500B	2500	117.5	18	13.5	7.5	15	0.8
	0.056	FCS3AIP563*BE71500B	2500	140	18	13.5	7.5	15	0.8
	0.068	FCS3AIP683*BE81500B	2500	170	18	14.5	8.5	15	0.8
	0.082	FCS3AIP823*BE1500B	2500	205	18	16	10	15	0.8
	0.1	FCS3AIP104*BE1500B	2500	250	18	16	10	15	0.8
	0.12	FCS3AIP124*BE71500B	2500	300	18	19	11	15	0.8
	0.12	FCS3AIP124*BB22200B	1500	180	26	16.5	7	22.5	0.8
	0.15	FCS3AIP154*BB32200B	1500	225	26	17	8.5	22.5	0.8
	0.18	FCS3AIP184*BB32200B	1500	270	26	17	8.5	22.5	0.8
	0.22	FCS3AIP224*BB42200B	1500	330	26	19	10	22.5	0.8
	0.27	FCS3AIP274*BB52200B	1500	405	26	20	11	22.5	0.8
	0.33	FCS3AIP334*BB52200B	1500	495	26	20	11	22.5	0.8
	0.39	FCS3AIP394*BB62200B	1500	585	26	22	13	22.5	0.8
	0.47	FCS3AIP474**I72700B	900	423	32	22	13	27.5	0.8
	0.56	FCS3AIP564**I72700B	900	504	32	22	13	27.5	0.8
	0.68	FCS3AIP684**I82700B	900	612	32	25	13	27.5	0.8
0.82	FCS3AIP824**IC2700B	900	738	32	28	14	27.5	0.8	
1	FCS3AIP105**IF2700B	900	900	32	33	18	27.5	0.8	
1.2	FCS3AIP125**IF2700B	900	1080	32	33	18	27.5	0.8	
1.5	FCS3AIP155**II2700B	900	1350	32	37	22	27.5	0.8	
1.8	FCS3AIP185**II2700B	900	1620	32	37	22	27.5	0.8	

规格标准 Standard Ratings

U_R	C_R	P/N	dV/dt	\hat{i}	W	H	T	P_1	d
(V)	(μ F)	-	(V/ μ S)	(A)	(mm)	(mm)	(mm)	(mm)	(mm)
1200Vdc (600Vac)	0.001	FCS3BIP102*BC21000A	4800	4.8	13	9	4	10	0.6
	0.0012	FCS3BIP122*BC21000A	4800	5.8	13	9	4	10	0.6
	0.0015	FCS3BIP152*BC21000A	4800	7.2	13	9	4	10	0.6
	0.0018	FCS3BIP182*BC21000A	4800	8.6	13	9	4	10	0.6
	0.0022	FCS3BIP222*BC21000A	4800	10.6	13	9	4	10	0.6
	0.0027	FCS3BIP272*BC21000A	4800	13.0	13	9	4	10	0.6
	0.0033	FCS3BIP332*BC21000A	4800	15.8	13	9	4	10	0.6
	0.0039	FCS3BIP392*BC41000A	4800	18.7	13	11	5	10	0.6
	0.0047	FCS3BIP472*BC41000A	4800	22.6	13	11	5	10	0.6
	0.0056	FCS3BIP562*BC41000A	4800	26.9	13	11	5	10	0.6
	0.0068	FCS3BIP682*BC41000A	4800	32.6	13	11	5	10	0.6
	0.0082	FCS3BIP822*BC41000A	4800	39.4	13	11	5	10	0.6
	0.01	FCS3BIP103*BE21500A	3300	33.0	18	11	5	15	0.6
	0.012	FCS3BIP123*BE21500A	3300	39.6	18	11	5	15	0.6
	0.015	FCS3BIP153*BE21500A	3300	49.5	18	11	5	15	0.6
	0.018	FCS3BIP183*BE21500A	3300	59.4	18	11	5	15	0.6
	0.02	FCS3BIP203*BE21500A	3300	66.0	18	11	5	15	0.6
	0.022	FCS3BIP223*BE51500A	3300	72.6	18	12	6	15	0.6
	0.027	FCS3BIP273*BE71500B	3300	89.1	18	13.5	7.5	15	0.8
	0.033	FCS3BIP333*BE71500B	3300	108.9	18	13.5	7.5	15	0.8
	0.039	FCS3BIP393*BE81500B	3300	128.7	18	14.5	8.5	15	0.8
	0.047	FCS3BIP473*BB22200B	2200	103.4	26	16.5	7	22.5	0.8
	0.056	FCS3BIP563*BB22200B	2200	123.2	26	16.5	7	22.5	0.8
	0.068	FCS3BIP683*BB32200B	2200	149.6	26	17	8.5	22.5	0.8
	0.082	FCS3BIP823*BB42200B	2200	180.4	26	19	10	22.5	0.8
	0.1	FCS3BIP104*BB42200B	2200	220.0	26	19	10	22.5	0.8
	0.12	FCS3BIP124*BB52200B	2200	264.0	26	20	11	22.5	0.8
	0.15	FCS3BIP154*BB62200B	2200	330.0	26	22	13	22.5	0.8
	0.18	FCS3BIP184**I42700B	1000	180.0	32	20	11	27.5	0.8
	0.22	FCS3BIP224**I72700B	1000	220.0	32	22	13	27.5	0.8
0.27	FCS3BIP274**I82700B	1000	270.0	32	25	13	27.5	0.8	
0.33	FCS3BIP334**IC2700B	1000	330.0	32	28	14	27.5	0.8	
0.39	FCS3BIP394**IF2700B	1000	390.0	32	33	18	27.5	0.8	
0.56	FCS3BIP564**II2700B	1000	560.0	32	37	22	27.5	0.8	
0.68	FCS3BIP684**II2700B	1000	680.0	32	37	22	27.5	0.8	
1600Vdc (650Vac)	0.0056	FCS3CIP562*BE21500A	6000	33.6	18	11	5	15	0.6
	0.0068	FCS3CIP682*BE21500A	6000	40.8	18	11	5	15	0.6
	0.0082	FCS3CIP822*BE21500A	6000	49.2	18	11	5	15	0.6
	0.01	FCS3CIP103*BE21500A	6000	60.0	18	11	5	15	0.6
	0.012	FCS3CIP123*BE51500A	6000	72.0	18	12	6	15	0.6
	0.015	FCS3CIP153*BE51500A	6000	90.0	18	12	6	15	0.6
	0.018	FCS3CIP183*BE71500B	6000	108.0	18	13.5	7.5	15	0.8
	0.022	FCS3CIP223*BE71500B	6000	132.0	18	13.5	7.5	15	0.8
	0.027	FCS3CIP273*BE81500B	6000	162.0	18	14.5	8.5	15	0.8
	0.033	FCS3CIP333*BE81500B	6000	198.0	18	14.5	8.5	15	0.8
	0.039	FCS3CIP393*BB22200B	3000	117.0	26	16.5	7	22.5	0.8
	0.047	FCS3CIP473*BB22200B	3000	141.0	26	16.5	7	22.5	0.8
	0.056	FCS3CIP563*BB32200B	3000	168.0	26	17	8.5	22.5	0.8
	0.068	FCS3CIP683*BB42200B	3000	204.0	26	19	10	22.5	0.8
	0.082	FCS3CIP823*BB42200B	3000	246.0	26	19	10	22.5	0.8
	0.1	FCS3CIP104*BB52200B	3000	300.0	26	20	11	22.5	0.8
	0.12	FCS3CIP124**I72700B	2000	240.0	32	22	13	27.5	0.8
	0.15	FCS3CIP154**I82700B	2000	300.0	32	25	13	27.5	0.8
	0.18	FCS3CIP184**IC2700B	2000	360.0	32	28	14	27.5	0.8
	0.22	FCS3CIP224**IF2700B	2000	440.0	32	33	18	27.5	0.8
0.27	FCS3CIP274**IF2700B	2000	540.0	32	33	18	27.5	0.8	
0.33	FCS3CIP334**IF2700B	2000	660.0	32	33	18	27.5	0.8	
0.39	FCS3CIP394**II2700B	2000	780.0	32	37	22	27.5	0.8	
0.47	FCS3CIP474**II2700B	2000	940.0	32	37	22	27.5	0.8	
2000Vdc (700Vac)	0.001	FCS3DIP102*BE21500A	9500	9.5	18	11	5	15	0.6
	0.0012	FCS3DIP122*BE21500A	9500	11.4	18	11	5	15	0.6
	0.0015	FCS3DIP152*BE21500A	9500	14.3	18	11	5	15	0.6
	0.0018	FCS3DIP182*BE21500A	9500	17.1	18	11	5	15	0.6
	0.0022	FCS3DIP222*BE21500A	9500	20.9	18	11	5	15	0.6
	0.0027	FCS3DIP272*BE21500A	9500	25.7	18	11	5	15	0.6
	0.0033	FCS3DIP332*BE21500A	9500	31.4	18	11	5	15	0.6
	0.0039	FCS3DIP392*BE21500A	9500	37.1	18	11	5	15	0.6
	0.0047	FCS3DIP472*BE21500A	9500	44.7	18	11	5	15	0.6
	0.0056	FCS3DIP562*BE51500A	9500	53.2	18	12	6	15	0.6
	0.0068	FCS3DIP682*BE51500A	9500	64.6	18	12	6	15	0.6
	0.0082	FCS3DIP822*BE51500A	9500	77.9	18	12	6	15	0.6
	0.01	FCS3DIP103*BE71500B	9500	95.0	18	13.5	7.5	15	0.8
	0.012	FCS3DIP123*BE81500B	9500	114.0	18	14.5	8.5	15	0.8
	0.015	FCS3DIP153*BE81500B	9500	142.5	18	14.5	8.5	15	0.8
	0.018	FCS3DIP183*BE1500B	9500	171.0	18	16	10	15	0.8
	0.022	FCS3DIP223*BB22200B	3500	77.0	26	16.5	7	22.5	0.8
	0.027	FCS3DIP273*BB22200B	3500	94.5	26	16.5	7	22.5	0.8
	0.033	FCS3DIP333*BB32200B	3500	115.5	26	17	8.5	22.5	0.8
	0.039	FCS3DIP393*BB42200B	3500	136.5	26	19	10	22.5	0.8
	0.047	FCS3DIP473*BB42200B	3500	164.5	26	19	10	22.5	0.8
	0.056	FCS3DIP563*BB52200B	3500	196.0	26	20	11	22.5	0.8
	0.068	FCS3DIP683**I72700B	2500	170.0	32	22	13	27.5	0.8
	0.082	FCS3DIP823**I82700B	2500	205.0	32	25	13	27.5	0.8
0.1	FCS3DIP104**IC2700B	2500	250.0	32	28	14	27.5	0.8	
0.12	FCS3DIP124**IF2700B	2500	300.0	32	33	18	27.5	0.8	
0.15	FCS3DIP154**IF2700B	2500	375.0	32	33	18	27.5	0.8	
0.18	FCS3DIP184**II2700B	2500	450.0	32	37	22	27.5	0.8	
0.22	FCS3DIP224**II2700B	2500	550.0	32	37	22	27.5	0.8	

FLM

预期寿命曲线 Expected lifetime curve

