



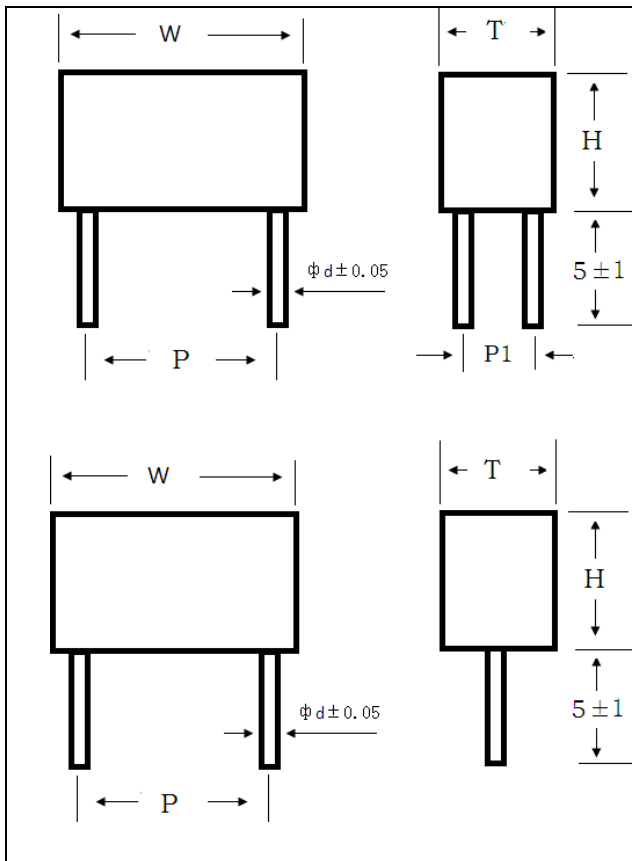
## ■ Features

- 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

## ■ 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



## ■ 标识 Marking



NO	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---3000V <sub>DC</sub>
电容量范围 Capacitance Range	0.047 ~ 6.5μF
电容量偏差 Capacitance Tolerance	±5%(J), ±10%(K), ±20%(M)
端子与端子电压 $U_{TT}$ Voltage Between Terminals	1.5× $U_{RDC}$ , 10s
端子与铝壳电压 $U_{TC}$ Voltage Between Terminals and Case	2× $U_i$ +1000 or 3000 (V <sub>AC</sub> ) 取大者, 10s (20°C, 50Hz)
损耗角正切 Dissipation Factor	0.0005 (20°C, 1KHz)
绝缘电阻 IR Insulation Resistance	≥30000MΩ·μF (20°C, 100V <sub>DC</sub> , 1min)
电极端子 Terminals	2/4 pins
失效率 Failure Rate	50Fit



■ **规格标准 Standard Ratings**

U <sub>R</sub> (V)	C <sub>R</sub> (μF)	P/N	dV/dt (V/μS)	İ (A)	ESR max@ 100kHz (mΩ)	L <sub>s</sub> (nH)	I <sub>max</sub> 100 kHz @70°C( A)	W±1 .0	H±1. 0	T±1. 0	P±1. 0	P1± 0.5	d±0. 05
850 Vdc (450 Vac)	0.47	FCSK2IP474KC**	1200	564	6.0	23	13.0	37.0	25.0	15.0	32.5	---	1.2
	0.47	FCSK2IP474KC**	1200	564	5.0	23	15.0	37.0	25.0	15.0	32.5	5.0	1.0
	0.68	FCSK2IP684KC**	1200	816	6.0	23	14.0	37.0	30.0	16.0	32.5	---	1.2
	0.68	FCSK2IP684KC**	1200	816	5.0	23	16.0	37.0	30.0	16.0	32.5	5.0	1.0
	1.0	FCSK2IP105KC**	1200	1200	6.0	23	14.5	37.0	34.0	20.0	32.5	---	1.2
	1.0	FCSK2IP105KC**	1200	1200	5.0	23	17.0	37.0	34.0	20.0	32.5	10.0	1.0
	1.2	FCSK2IP125KC**	1200	1440	6.0	23	15.0	37.0	34.0	20.0	32.5	---	1.2
	1.2	FCSK2IP125KC**	1200	1440	5.0	23	17.5	37.0	34.0	20.0	32.5	10.0	1.0
	1.5	FCSK2IP155KC**	1200	1800	6.0	23	15.0	37.0	34.0	20.0	32.5	---	1.2
	1.5	FCSK2IP155KC**	1200	1800	5.0	23	18.0	37.0	34.0	20.0	32.5	10.0	1.0
	1.5	FCSK2IP155KF**	750	1125	5.5	29	15.0	42.0	40.0	20.0	37.5	---	1.2
	1.5	FCSK2IP155KF**	750	1125	4.5	29	18.5	42.0	40.0	20.0	37.5	10.0	1.0
	2.0	FCSK2IP205KF**	750	1500	5.5	29	15.0	42.0	40.0	20.0	37.5	---	1.2
	2.0	FCSK2IP205KF**	750	1500	4.5	29	19.0	42.0	40.0	20.0	37.5	10.0	1.2
	2.2	FCSK2IP225KF**	750	1650	5.5	29	15.0	42.0	40.0	20.0	37.5	---	1.2
	2.2	FCSK2IP225KF**	750	1650	4.5	29	19.5	42.0	40.0	20.0	37.5	10.0	1.2
	2.5	FCSK2IP255KF**	750	1875	4.5	29	20.0	42.0	44.0	24.0	37.5	12.7	1.2
	3.0	FCSK2IP305KF**	750	2250	4.5	29	21.0	42.0	44.0	24.0	37.5	12.7	1.2
	3.3	FCSK2IP335KF**	750	2475	4.5	29	21.5	42.0	45.0	30.0	37.5	20.0	1.2
	4.0	FCSK2IP405KF**	750	3000	4.5	29	22.0	42.0	43.0	42.0	37.5	20.0	1.2
4.0	FCSK2IP405KH**	450	1800	4.0	33	23.0	57.0	45.0	30.0	52.5	20.0	1.2	
4.7	FCSK2IP475KH**	450	2115	4.0	33	24.5	57.0	45.0	30.0	52.5	20.0	1.2	
5.0	FCSK2IP505KH**	450	2250	4.0	33	25.0	57.0	45.0	30.0	52.5	20.0	1.2	
6.0	FCSK2IP605KH**	450	2700	4.0	33	26.0	57.0	50.0	35.0	52.5	20.0	1.2	
6.5	FCSK2IP655KH**	450	2925	4.0	33	27.0	57.0	50.0	35.0	52.5	20.0	1.2	
1000 Vdc (500 Vac)	0.47	FCS3AIP474KC**	1300	611	6.0	23	12.0	37.0	25.0	15.0	32.5	---	1.2
	0.47	FCS3AIP474KC**	1300	611	5.0	23	14.0	37.0	25.0	15.0	32.5	5.0	1.0
	0.68	FCS3AIP684KC**	1300	884	6.0	23	13.0	37.0	30.0	16.0	32.5	---	1.2
	0.68	FCS3AIP684KC**	1300	884	5.0	23	15.0	37.0	30.0	16.0	32.5	5.0	1.0
	0.82	FCS3AIP824KC**	1300	1066	6.0	23	14.0	37.0	30.0	16.0	32.5	---	1.2
	0.82	FCS3AIP824KC**	1300	1066	5.0	23	16.0	37.0	30.0	16.0	32.5	5.0	1.0
	1.0	FCS3AIP105KC**	1300	1300	5.5	23	14.0	37.0	34.0	20.0	32.5	---	1.2
	1.0	FCS3AIP105KC**	1300	1300	4.5	23	17.0	37.0	34.0	20.0	32.5	10.0	1.0
	1.2	FCS3AIP125KC**	1300	1560	5.5	23	14.0	37.0	34.0	20.0	32.5	---	1.2
	1.2	FCS3AIP125KC**	1300	1560	4.5	23	17.0	37.0	34.0	20.0	32.5	10.0	1.0
	1.2	FCS3AIP125KF**	850	1020	5.5	29	14.0	42.0	40.0	20.0	37.5	---	1.2
	1.2	FCS3AIP125KF**	850	1020	4.5	29	16.0	42.0	40.0	20.0	37.5	10.0	1.0
	1.5	FCS3AIP155KF**	850	1275	5.5	29	14.0	42.0	40.0	20.0	37.5	---	1.2
	1.5	FCS3AIP155KF**	850	1275	4.5	29	16.0	42.0	40.0	20.0	37.5	10.0	1.0
	2.0	FCS3AIP205KF**	850	1700	4.5	29	17.0	42.0	44.0	24.0	37.5	12.7	1.2
	2.2	FCS3AIP225KF**	850	1870	4.0	29	20.0	42.0	44.0	24.0	37.5	12.7	1.2
	2.5	FCS3AIP255KF**	850	2125	4.0	29	21.0	42.0	45.0	30.0	37.5	20.0	1.2
	3.0	FCS3AIP305KF**	850	2550	4.0	29	21.5	42.0	45.0	30.0	37.5	20.0	1.2
	3.3	FCS3AIP335KF**	850	2805	4.0	29	22.0	42.0	43.0	42.0	37.5	20.0	1.2
	3.3	FCS3AIP335KH**	500	1650	4.0	33	20.0	57.0	45.0	30.0	52.5	20.0	1.2
4.0	FCS3AIP405KH**	500	2000	4.0	33	21.0	57.0	45.0	30.0	52.5	20.0	1.2	
4.7	FCS3AIP475KH**	500	2350	4.0	33	22.0	57.0	50.0	35.0	52.5	20.0	1.2	
5.0	FCS3AIP505KH**	500	2500	4.0	33	23.0	57.0	50.0	35.0	52.5	20.0	1.2	



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$U_R$ (V)	$C_R$ ( $\mu F$ )	P/N	dV/dt (V/ $\mu s$ )	$\hat{I}$ (A)	ESR max@ 100kHz (m $\Omega$ )	$L_s$ (nH)	$I_{max}$ 100kHz @70 °C (A)	$W_{\pm 1.0}$	$H_{\pm 1.0}$	$T_{\pm 1.0}$	$P_{\pm 1.0}$	$P1_{\pm 0.5}$	$d_{\pm 0.05}$
1200 Vdc (600 Vac)	0.33	FCS3BIP334KC**	1500	495	6.0	23	12.0	37.0	25.0	15.0	32.5	---	1.2
	0.33	FCS3BIP334KC**	1500	495	5.0	23	14.0	37.0	25.0	15.0	32.5	5.0	1.2
	0.47	FCS3BIP474KC**	1500	705	6.0	23	12.0	37.0	30.0	16.0	32.5	---	1.2
	0.47	FCS3BIP474KC**	1500	705	5.0	23	14.0	37.0	30.0	16.0	32.5	5.0	1.2
	0.68	FCS3BIP684KC**	1500	1020	6.0	23	13.5	37.0	34.0	20.0	32.5	---	1.2
	0.68	FCS3BIP684KC**	1500	1020	5.0	23	15.0	37.0	34.0	20.0	32.5	10.0	1.0
	0.75	FCS3BIP754KC**	1500	1125	6.0	23	14.0	37.0	34.0	20.0	32.5	---	1.2
	0.75	FCS3BIP754KC**	1500	1125	5.0	23	16.0	37.0	34.0	20.0	32.5	10.0	1.0
	0.82	FCS3BIP824KF**	950	779	6.0	23	14.5	42.0	40.0	20.0	37.5	---	1.2
	0.82	FCS3BIP824KF**	950	779	5.0	29	17.0	42.0	40.0	20.0	37.5	10.0	1.0
	1.0	FCS3BIP105KF**	950	950	6.0	29	15.0	42.0	40.0	20.0	37.5	---	1.2
	1.0	FCS3BIP105KF**	950	950	5.0	29	18.0	42.0	40.0	20.0	37.5	10.0	1.0
	1.2	FCS3BIP125KF**	950	1140	4.5	29	19.0	42.0	44.0	24.0	37.5	12.7	1.2
	1.5	FCS3BIP155KF**	950	1425	4.5	29	19.5	42.0	44.0	24.0	37.5	12.7	1.2
	2.0	FCS3BIP205KF**	950	1900	4.5	29	20.0	42.0	45.0	30.0	37.5	20.0	1.2
	2.2	FCS3BIP225KF**	950	2090	4.5	29	21.0	42.0	43.0	42.0	37.5	20.0	1.2
	2.5	FCS3BIP255KF**	950	2375	4.5	29	22.0	42.0	43.0	42.0	37.5	20.0	1.2
	2.2	FCS3BIP225KH**	600	1320	4.0	33	20.0	57.0	45.0	30.0	52.5	20.0	1.2
	2.5	FCS3BIP255KH**	600	1500	4.0	33	21.0	57.0	45.0	30.0	52.5	20.0	1.2
	3.0	FCS3BIP305KH**	600	1800	4.0	33	22.0	57.0	45.0	30.0	52.5	20.0	1.2
3.3	FCS3BIP335KH**	600	1980	4.0	33	23.0	57.0	50.0	35.0	52.5	20.0	1.2	
4.0	FCS3BIP405KH**	600	2400	4.0	33	24.0	57.0	50.0	35.0	52.5	20.0	1.2	
1600 Vdc (650 Vac)	0.22	FCS3CIP224KC**	1900	418	7.0	23	11.5	37.0	25.0	15.0	32.5	---	1.2
	0.22	FCS3CIP224KC**	1900	418	6.0	23	13.0	37.0	25.0	15.0	32.5	5.0	1.0
	0.33	FCS3CIP224KC**	1900	627	7.0	23	12.0	37.0	30.0	16.0	32.5	---	1.2
	0.33	FCS3CIP334KC**	1900	627	6.0	23	14.0	37.0	30.0	16.0	32.5	5.0	1.0
	0.39	FCS3CIP394KC**	1900	741	6.5	23	12.5	37.0	34.0	20.0	32.5	---	1.2
	0.39	FCS3CIP394KC**	1900	741	5.5	23	14.5	37.0	34.0	20.0	32.5	10.0	1.0
	0.47	FCS3CIP474KC**	1900	893	6.5	23	13.5	37.0	34.0	20.0	32.5	---	1.2
	0.47	FCS3CIP474KC**	1900	893	5.5	23	15.5	37.0	34.0	20.0	32.5	10.0	1.0
	0.68	FCS3CIP684KF**	1250	850	4.5	29	14.0	42.0	40.0	20.0	37.5	---	1.2
	0.68	FCS3CIP684KF**	1250	850	3.8	29	16.5	42.0	40.0	20.0	37.5	10.0	1.0
	0.82	FCS3CIP824KF**	1250	1025	3.8	29	19.0	42.0	44.0	24.0	37.5	12.7	1.2
	1.0	FCS3CIP105KF**	1250	1250	3.8	29	19.5	42.0	45.0	30.0	37.5	20.0	1.2
	1.2	FCS3CIP125KF**	1250	1500	3.8	29	20.0	42.0	45.0	30.0	37.5	20.0	1.2
	1.5	FCS3CIP155KF**	1250	1875	3.8	29	21.0	42.0	43.0	42.0	37.5	20.0	1.2
	1.5	FCS3CIP155KH**	750	1125	3.8	33	22.0	57.0	45.0	30.0	52.5	20.0	1.2
	2.0	FCS3CIP205KH**	750	1500	3.8	33	24.0	57.0	50.0	35.0	52.5	20.0	1.2
2000 Vdc (700 Vac)	0.1	FCS3DIP104KC**	2250	225	9.0	23	10.0	37.0	25.0	15.0	32.5	---	1.2
	0.1	FCS3DIP104KC**	2250	225	8.0	23	12.0	37.0	25.0	15.0	32.5	5.0	1.0
	0.15	FCS3DIP154KC**	2250	338	9.0	23	11.0	37.0	25.0	15.0	32.5	---	1.2
	0.15	FCS3DIP154KC**	2250	338	8.0	23	13.0	37.0	25.0	15.0	32.5	5.0	1.0
	0.22	FCS3DIP224KC**	2250	495	7.0	23	12.0	37.0	30.0	16.0	32.5	---	1.2
	0.22	FCS3DIP224KC**	2250	495	6.0	23	14.0	37.0	30.0	16.0	32.5	5.0	1.0
	0.33	FCS3DIP334KC**	2250	742	7.0	23	12.0	37.0	34.0	20.0	32.5	---	1.2
	0.33	FCS3DIP334KC**	2250	742	6.0	23	14.0	37.0	34.0	20.0	32.5	10.0	1.0
	0.47	FCS3DIP474KF**	1300	611	5.5	29	13.0	42.0	40.0	20.0	37.5	---	1.2
	0.47	FCS3DIP474KF**	1300	611	4.5	29	15.0	42.0	40.0	20.0	37.5	10.0	1.0
	0.56	FCS3DIP564KF**	1300	728	4.0	29	18.0	42.0	44.0	24.0	37.5	12.7	1.2
	0.68	FCS3DIP684KF**	1300	884	3.5	29	18.5	42.0	44.0	24.0	37.5	12.7	1.2
	0.82	FCS3DIP824KF**	1300	1066	3.5	29	19.0	42.0	45.0	30.0	37.5	20.0	1.2
	1.0	FCS3DIP105KF**	1300	1300	3.5	29	21.0	42.0	43.0	42.0	37.5	20.0	1.2
	1.0	FCS3DIP105KH**	850	850	4.0	33	24.0	57.0	45.0	30.0	52.5	20.0	1.2
	1.2	FCS3DIP125KH**	850	1020	4.0	33	23.0	57.0	45.0	30.0	52.5	20.0	1.2
1.5	FCS3DIP155KH**	850	1275	4.0	33	24.0	57.0	50.0	35.0	52.5	20.0	1.2	



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$U_R$ (V)	$C_R$ ( $\mu$ F)	P/N	dV/dt (V/ $\mu$ S)	$\hat{I}$ (A)	ESR max@ 100kHz (m $\Omega$ )	$L_s$ (nH)	$I_{max}$ 100kHz @ 70 °C (A)	W $\pm$ 1. 0	H $\pm$ 1. 0	T $\pm$ 1 .0	P $\pm$ 1 .0	P1 $\pm$ 0.5	d $\pm$ 0 .05
2500 Vdc (725 Vac)	0.068	FCS3EIP683KC**	2900	198	10.0	23	10.5	37.0	25.0	15.0	32.5	---	1.2
	0.068	FCS3EIP683KC**	2900	198	9.0	23	12.0	37.0	25.0	15.0	32.5	5.0	1.0
	0.10	FCS3EIP104KC**	2900	290	10.0	23	11.0	37.0	30.0	16.0	32.5	---	1.2
	0.10	FCS3EIP104KC**	2900	290	9.0	23	13.0	37.0	30.0	16.0	32.5	5.0	1.0
	0.15	FCS3EIP154KC**	2900	435	9.5	23	12.5	37.0	34.0	20.0	32.5	---	1.2
	0.15	FCS3EIP154KC**	2900	435	8.5	23	14.0	37.0	34.0	20.0	32.5	10.0	1.0
	0.18	FCS3EIP184KC**	2900	522	9.0	23	13.0	37.0	34.0	20.0	32.5	---	1.2
	0.18	FCS3EIP184KC**	2900	522	8.0	23	15.0	37.0	34.0	20.0	32.5	10.0	1.0
	0.22	FCS3EIP224KF**	2100	462	5.0	29	13.5	42.0	40.0	20.0	37.5	---	1.2
	0.22	FCS3EIP224KF**	2100	462	4.0	29	15.5	42.0	40.0	20.0	37.5	10.0	1.0
	0.33	FCS3EIP334KF**	2100	693	4.0	29	16.0	42.0	44.0	24.0	37.5	12.7	1.2
	0.47	FCS3EIP474KF**	2100	987	4.0	29	17.0	42.0	45.0	30.0	37.5	20.0	1.2
	0.68	FCS3EIP684KF**	2100	1428	4.0	29	17.5	42.0	43.0	42.0	37.5	20.0	1.2
	0.68	FCS3EIP684KH**	1200	816	4.0	33	18.0	57.0	45.0	30.0	52.5	20.0	1.2
1.0	FCS3EIP105KH**	1200	1200	4.0	33	18.0	57.0	50.0	35.0	52.5	20.0	1.2	
3000 Vdc (750 Vac)	0.047	FCS3FIP473KC**	3360	158	10.0	23	9.5	37.0	25.0	15.0	32.5	---	1.2
	0.047	FCS3FIP473KC**	3360	158	9.0	23	11.0	37.0	25.0	15.0	32.5	5.0	1.0
	0.068	FCS3FIP683KC**	3360	229	9.5	23	10.5	37.0	30.0	16.0	32.5	---	1.2
	0.068	FCS3FIP683KC**	3360	229	8.5	23	12.5	37.0	30.0	16.0	32.5	5.0	1.0
	0.10	FCS3FIP104KC**	3360	336	8.5	23	11.5	37.0	34.0	20.0	32.5	---	1.2
	0.10	FCS3FIP104KC**	3360	336	8.0	23	13.5	37.0	34.0	20.0	32.5	10.0	1.0
	0.15	FCS3FIP154KC**	3360	504	9.0	23	12.0	37.0	34.0	20.0	32.5	---	1.2
	0.15	FCS3FIP154KC**	3360	504	8.0	23	14.0	37.0	34.0	20.0	32.5	10.0	1.0
	0.22	FCS3FIP224KF**	2050	451	7.0	29	12.0	42.0	40.0	20.0	37.5	---	1.2
	0.22	FCS3FIP224KF**	2050	451	6.0	29	14.5	42.0	40.0	20.0	37.5	10.0	1.0
	0.33	FCS3FIP334KF**	2050	677	5.0	29	15.0	42.0	45.0	30.0	37.5	20.0	1.2
	0.47	FCS3FIP474KF**	2050	964	5.0	29	16.0	42.0	43.0	42.0	37.5	20.0	1.2
	0.47	FCS3FIP474KH**	1200	564	5.0	33	17.0	57.0	45.0	30.0	52.5	20.0	1.2
	0.68	FCS3FIP684KH**	1200	816	4.5	33	17.5	57.0	50.0	35.0	52.5	20.0	1.2
0.82	FCS3FIP824KH**	1200	984	4.5	33	18.5	57.0	50.0	35.0	52.5	20.0	1.2	

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