

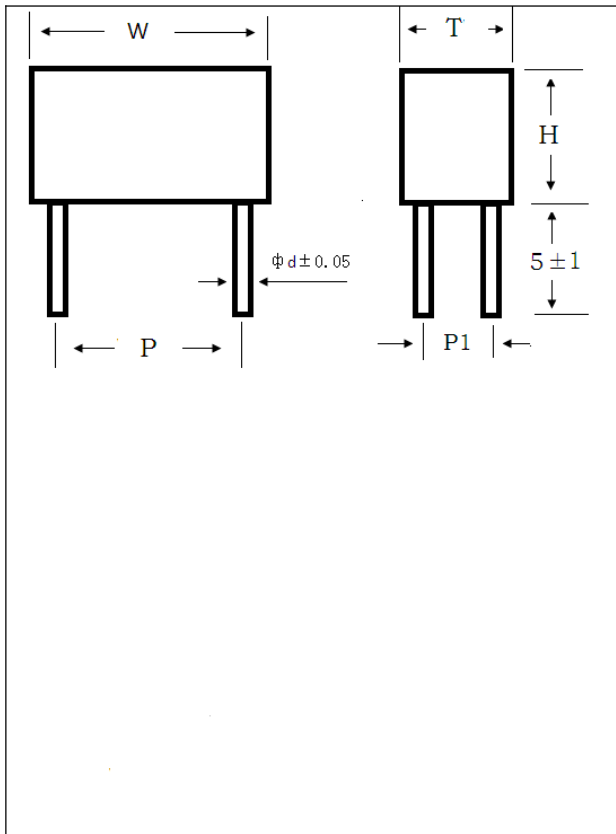
## ■ Features

- 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

## ■ 外型图 Dimensions



## ■ 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	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	700~2000V <sub>DC</sub>
电容量范围 Capacitance Range	0.15 ~ 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, 50Hz)
端子与铝壳电压 $U_{TC}$ Voltage Between Terminals and Case	3000V <sub>AC</sub> , 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 <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	100FIT

## 规格标准 Standard Ratings

UR	C <sub>R</sub>	P/N	dV/dt	$\hat{I}$	R <sub>s</sub>	I <sub>max</sub>	W	H	T	P	P1	d
(V)	( $\mu$ F)	-	(20°C) (V/ $\mu$ S)	(A)	100KHz (m $\Omega$ )	100KHz @70°C (A)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
700	3.00	FCS2QIP305*F4E	325	975	5	22.4	42.5	45	30	37.5	20.3	1.2
	4.00	FCS2QIP405*F4E	325	1300	4	25	42.5	43	42	37.5	20.3	1.2
	4.20	FCS2QIP425*H4E	260	1092	3	26	57.5	43.5	29.5	52.5	20.3	1.2
	4.50	FCS2QIP455*H4E	260	1170	3	26	57.5	45	30	52.5	20.3	1.2
	5.00	FCS2QIP505*H4E	260	1300	3	27	57.5	45	35	52.5	20.3	1.2
	5.50	FCS2QIP555*H4E	260	1430	2	27	57.5	50	35	52.5	20.3	1.2
	6.00	FCS2QIP605*H4E	260	1560	2	28	57.5	45	45	52.5	20.3	1.2
	7.50	FCS2QIP755*H4E	260	1950	2	30	57.5	55	40	52.5	20.3	1.2
850	2.20	FCSK2IP225*F4E	400	880	6	21.5	42.5	45	30	37.5	20.3	1.2
	2.80	FCSK2IP285*F4E	400	1120	5	24	42.5	43	42	37.5	20.3	1.2
	3.00	FCSK2IP305*H4E	290	870	4	24	57.5	43.5	29.5	52.5	20.3	1.2
	3.00	FCSK2IP305*H4E	290	870	4	25	57.5	45	30	52.5	20.3	1.2
	3.50	FCSK2IP355*H4E	290	1015	4	25	57.5	45	35	52.5	20.3	1.2
	4.50	FCSK2IP455*H4E	290	1305	3	27	57.5	50	35	52.5	20.3	1.2
	5.00	FCSK2IP505*H4E	290	1450	3	27	57.5	45	45	52.5	20.3	1.2
	5.00	FCSK2IP505*H4E	290	1450	2	29	57.5	55	40	52.5	20.3	1.2
1000	1.80	FCS3AIP185*F4E	500	900	6	21	42.5	45	30	37.5	20.3	1.2
	2.20	FCS3AIP225*F4E	500	1100	5	23	42.5	43	42	37.5	20.3	1.2
	2.20	FCS3AIP225*H4E	350	770	6	23	57.5	43.5	29.5	52.5	20.3	1.2
	2.50	FCS3AIP225*H4E	350	875	5	24	57.5	45	30	52.5	20.3	1.2
	3.00	FCS3AIP305*H4E	350	1050	5	24	57.5	45	35	52.5	20.3	1.2
	3.30	FCS3AIP335*H4E	350	1155	4	25	57.5	50	35	52.5	20.3	1.2
	3.50	FCS3AIP355*H4E	350	1225	4	25	57.5	45	45	52.5	20.3	1.2
	4.50	FCS3AIP455*H4E	350	1575	4	28	57.5	55	40	52.5	20.3	1.2
1200	1.20	FCS3BIP125*F4E	650	780	7	20.6	42.5	45	30	37.5	20.3	1.2
	1.50	FCS3BIP155*F4E	650	975	6	22	42.5	43	42	37.5	20.3	1.2
	1.50	FCS3BIP155*H4E	455	683	6	22	57.5	43.5	29.5	52.5	20.3	1.2
	1.80	FCS3BIP185*H4E	455	819	6	23	57.5	45	30	52.5	20.3	1.2
	2.00	FCS3BIP205*H4E	455	910	5	24	57.5	45	35	52.5	20.3	1.2
	2.20	FCS3BIP225*H4E	455	1001	5	24	57.5	50	35	52.5	20.3	1.2
	2.50	FCS3BIP255*H4E	455	1138	4	25	57.5	45	45	52.5	20.3	1.2
	3.00	FCS3BIP305*H4E	455	1365	4	26	57.5	55	40	52.5	20.3	1.2
1600	0.80	FCS3CIP804*F4E	800	640	8	20.5	42.5	45	30	37.5	20.3	1.2
	1.00	FCS3CIP105*F4E	800	800	7	21	42.5	43	42	37.5	20.3	1.2
	1.00	FCS3CIP105*H4E	560	560	6	22	57.5	43.5	29.5	52.5	20.3	1.2
	1.20	FCS3CIP125*H4E	560	672	6	22	57.5	45	30	52.5	20.3	1.2
	1.40	FCS3CIP145*H4E	560	784	5	23	57.5	45	35	52.5	20.3	1.2
	1.60	FCS3CIP165*H4E	560	896	5	23	57.5	50	35	52.5	20.3	1.2
	1.70	FCS3CIP175*H4E	560	952	4	24	57.5	45	45	52.5	20.3	1.2
	2.00	FCS3CIP205*H4E	560	1120	4	25	57.5	55	40	52.5	20.3	1.2
2000	0.56	FCS3DIP564*F4E	1000	560	9	20.1	42.5	45	30	37.5	20.3	1.2
	0.70	FCS3DIP704*F4E	1000	700	8	20	42.5	43	42	37.5	20.3	1.2
	0.75	FCS3DIP754*H4E	720	540	8	21	57.5	43.5	29.5	52.5	20.3	1.2
	0.82	FCS3DIP824*H4E	720	590.4	7	21	57.5	45	30	52.5	20.3	1.2
	0.90	FCS3DIP904*H4E	720	648	6	22	57.5	45	35	52.5	20.3	1.2
	1.00	FCS3DIP105*H4E	720	720	6	22	57.5	50	35	52.5	20.3	1.2

1.20	FCS3DIP125*H4E	720	864	5	22	57.5	45	45	52.5	20.3	1.2
1.40	FCS3DIP145*H4E	720	1008	4	24	57.5	55	40	52.5	20.3	1.2

可根据客户要求定制。

Customer products are available on request.

\*  $R_{th}$  为产品热点到环境的热阻（自然冷却）

The thermal Resistance from hotspot to ambient environment (Natural cooling)

### 预期寿命曲线 Expected lifetime curve

