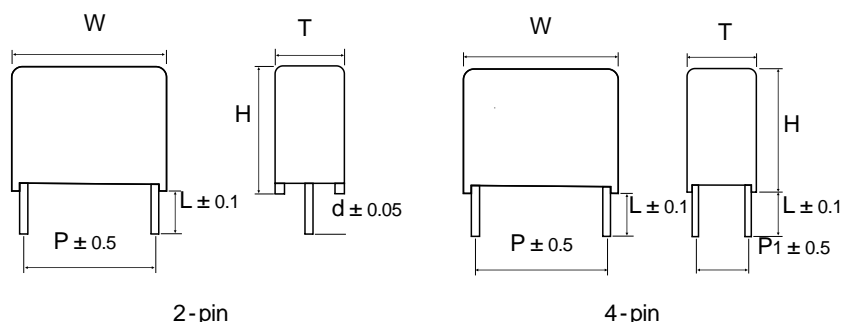


## 双面金属化聚丙烯膜IGBT吸收电容器 - SCH

Double-side Metallized Polypropylene Film snubber Capacitor for IGBT applicatio SCH



## 双面金属化聚丙烯膜IGBT吸收电容器 - SCH - Cu(PCB)

- 1、名称：型号SCH ,代号SH。
- 2、结构：内部串联卷绕结构
  - 2.1、介质：聚丙烯膜
  - 2.2、电极：双面金属化膜。
  - 2.3、引出端：铜线
  - 2.4、封装：UL94V0阻燃性壳体和环氧树脂封装。
- 3、主要用途：IGBT吸收电容器
- 4、主要特性：
  - 4.1、广泛用于高压高频脉冲电路中
  - 4.2、损耗小，内部温升小。
  - 4.3、优异的阻燃性。
  - 4.4、高稳定性和可靠性

## Double-side Metallized Polypropylene Film snubber Capacitor for IGBT applicatio SCH-Cu for PCB

- 1、Type name : SCH ,SH.
- 2、Construction : Wound capacitor with internal series connection.
  - 2.1、Dielectric : film .
  - 2.2、Capacitor electrode : Double side metallized plastic film .
  - 2.3、Strap terminals : Cu wire .
  - 2.4、Encapsulatin : flame-retardent plastic case with epoxy resin seal,UL94V0.
- 3、Main application: IGBT snubbing .
- 4、Special feature :
  - 4.1、widely used in high voltage , high frequency pulse circuit.
  - 4.2、low loss and small inherent temperature rise .
  - 4.3、Excellent active and passive flame retardent .
  - 4.4、High stability and reliability .

## 5. Electrical specifications - 电气特性

Item	Specification				
Reference standard 引用标准	IEC61071,GBT17702.1:2013				
climatic category 气候类别	40/105/21				
Operating Temperature 工作温度	-40 ~+105 (+85 ~+105 :derating factor 2.5% per for Un(DC)and AC current Irms, 85 ~ 105 时Dc电压和AC电流Irms衰减系数 2.5%/度)				
Rated Voltage Undc 额定电压(VDC at 85 )	850	1000	1200	1600	2000
Urms AC Voltage Vac AC电压有效值( at f<1Khz)	450	500	550	600	650
Capacitance Range 容量范围( μ F )	0.1~7	0.1~5	0.15~3	0.047~2	0.033~1.5
Capacitance Tolerance 容量偏差	± 5%(J), ± 10%(K)				
Dissipation Factor 散逸因素	0.002 ( 1Khz,25 ) ;				
Insulation Resistance 绝缘电阻	IR ≥30,000s, C>0.33 μ F IR ≥100,000 M , C 0.33 μ F(100VDC charged 1min , 60s, 20 )				
Withstand Voltage between T/T端子间耐电压	1.5*Undc , 10s				
Withstand Voltage between T/C端子对外壳耐电压	3000Vac / 50HZ, 60S				

IGBT Snubber capacitor - SCH-Cu

U <sub>R</sub> VDC	Vrms for f<1kHz VAC	容量 (uF)	宽度 W ( mm)	高度 H ( mm)	厚度 T ( mm)	P	Pitch1	d /LT	dV/dT (V/ μs)	I <sub>rms</sub> 100 kHz(A)	ESR 100kHz m	C.C
850	450	0.1	26	20	11	22.5	-	0.8	900	4	13	P260
		0.15	26	20	11	22.5	-	1	900	4.5	12	P260
		0.22	26	23	13	22.5	-	1	900	5	11	P262
		0.33	26	27	16	22.5	-	1	900	6	11	P264
		0.47	26	30	20	22.5	-	1	900	7	11	P265
		0.68	26	34	24	22.5	-	1	900	8.5	11	P266
		0.22	32	22	13	27.5	-	1	700	4.5	10	TP34
		0.33	32	25	15	27.5	-	1	700	5.5	8	TP36
		0.47	32	28	17	27.5	-	1	700	6.5	6	TP37
		0.68	32	35	20	27.5	-	1	700	8	6	TP3c
		0.82	32	35	20	27.5	-	1	700	9	6	TP3c
		0.91	32	37	22	27.5	-	1	700	9.5	5.5	TP3C
		1	32	37	22	27.5	-	1	700	10	5.5	TP3C
		1	47.5	31	17	42.5	5.1	1	400	10	5.5	TP4A
		1.2	47.5	31	20	42.5	10.2	1	400	10.5	5	TP4B
		1.5	47.5	35	23	42.5	10.2	1	400	12	5	TP4D
		1.8	47.5	37	24	42.5	10.2	1.2	400	13	5.5	TP4E
		2	47.5	37	24	42.5	10.2	1.2	400	13.5	5.5	TP4E
		2.2	47.5	40	28	42.5	10.2	1.2	400	14	5	TP4M
		2.5	47.5	40	28	42.5	10.2	1.2	400	14.5	4.5	TP4M
		3	47.5	45	30	42.5	20.3	1.2	400	16	4.5	P470
		3.5	47.5	48	33	42.5	20.3	1.2	400	16.5	3.5	P471
		4.7	47.5	49.5	40	42.5	20.3	1.2	400	18	3.3	TP4X
		2.2	57.5	38	23	52.5	10.2	1.2	275	13.5	5	TP57
		3	57.5	38	26	52.5	10.2	1.2	275	15	5	TP58
		3.5	57.5	40	30	52.5	10.2	1.2	275	16	5	TP59
		4	57.5	45	30	52.5	20.3	1.2	275	16.5	4	TP5A
		4.3	57.5	45	30	52.5	20.3	1.2	275	17	4	P570
		4.7	57.5	50	35	52.5	20.3	1.2	275	17.5	3.5	TP5E
		5	57.5	50	35	52.5	20.3	1.2	275	18	3.5	TP5E
5.6	57.5	50	35	52.5	20.3	1.2	275	19	3.5	TP5E		
6.8	57.5	57.5	38	52.5	20.3	1.2	275	20	2.8	P571		
7	57.5	57.5	38	52.5	20.3	1.2	275	22	2.5	P571		

IGBT Snubber capacitor - SCH-Cu

U <sub>R</sub> VDC	Vrms for f<1kHz VAC	容量 (uF)	宽度 W ( mm)	高度 H ( mm)	厚度 T ( mm)	P	Pitch1	d /LT	dV/dT (V/μs)	I <sub>rms</sub> 100 kHz(A)	ESR 100kHz m	C.C
1000	500	0.1	26	20	11	22.5	-	1	1200	4.5	13	P260
		0.15	26	23	13	22.5	-	1	1200	5	12	P262
		0.22	26	25	16.5	22.5	-	1	1200	5.5	12	P263
		0.33	26	30	20	22.5	-	1	1200	6	11	P265
		0.1	32	20	11	27.5	-	1	750	4	10	TP32
		0.15	32	22	13	27.5	-	1	750	4.5	9	TP34
		0.22	32	25	15	27.5	-	1	750	5.5	9	TP36
		0.33	32	28	17	27.5	-	1	750	6.5	8	TP37
		0.47	32	33	18	27.5	-	1	750	7.5	7	TP3A
		0.56	32	35	20	27.5	-	1	750	8	6	TP3c
		0.68	32	37	22	27.5	-	1.2	750	9.5	6	TP3C
		0.68	47.5	31	17	42.5	-	1.2	450	9	6	TP4A
		0.82	47.5	31	17	42.5	-	1.2	450	10	5.5	TP4A
		1	47.5	31	20	42.5	-	1.2	450	11	5.5	TP4B
		1.5	47.5	37	24	42.5	10.2	1.2	450	13	5	TP4M
		1.8	47.5	40	28	42.5	10.2	1.2	450	15	5	TP4E
		2.2	47.5	45	30	42.5	20.3	1.2	450	17	4.5	P470
		2.7	47.5	48	33	42.5	20.3	1.2	450	18	4	P471
		3.3	47.5	49.5	40	42.5	20.3	1.2	450	20	4	TP4X
		1.8	57.5	38	23	52.5	10.2	1.2	300	14.5	4	TP57
		2.2	57.5	38	26	52.5	10.2	1.2	300	15.5	3.5	TP58
		2.7	57.5	40	30	52.5	20.3	1.2	300	16	3.5	TP59
		3	57.5	45	30	52.5	20.3	1.2	300	17	3	P570
		3.3	57.5	45	30	52.5	20.3	1.2	300	18	3	P570
4	57.5	50	35	52.5	20.3	1.2	300	19	3	TP5E		
4.7	57.5	57.5	38	52.5	20.3	1.2	300	20	3	P571		
5	57.5	57.5	38	52.5	20.3	1.2	300	20	3	P571		

IGBT Snubber capacitor - SCH-Cu

U <sub>R</sub> VDC	Vrms for f<1kHz VAC	容量 (uF)	宽度 W ( mm)	高度 H ( mm)	厚度 T ( mm)	P	Pitch1	d /LT	dV/dT (V/μs)	I <sub>rms</sub> 100 kHz(A)	ESR 100kHz m	C.C
1200	550	0.1	26	20	18	22.5	-	1	1500	5.5	13	P26A
		0.15	26	23	21	22.5	-	1	1500	6	12	P26B
		0.22	26	26	24	22.5	-	1	1500	6.5	11	P26C
		0.33	26	31	29	22.5	-	1	1500	7	10	P26D
		0.1	26	23	13	22.5	-	1	1500	5	13	P262
		0.15	26	27	16	22.5	-	1	1500	5.5	12.5	P264
		0.22	26	30	20	22.5	-	1	1500	6	11.5	P265
		0.33	26	34	24	22.5	-	1	1500	6.5	10.5	P266
		0.1	32	22	13	27.5	-	1	1000	4.5	13	TP34
		0.15	32	25	15	27.5	-	1	1000	5	12	TP36
		0.22	32	28	17	27.5	-	1	1000	6	11.5	TP37
		0.24	32	28	17	27.5	-	1	1000	6	11	TP37
		0.33	32	31	22	27.5	-	1	1000	7	9.5	TP3F
		0.45	32	37	22	27.5	-	1	1000	8	9	TP3C
		0.4	42.5	28	17	37.5	-	1	650	8	10	TP49
		0.56	42.5	30	22	37.5	10.2	1	650	8.5	9.5	TP4R
		0.65	42.5	33.5	22	37.5	10.2	1	650	10	9	TP45
		1	42.5	37	28	37.5	10.2	1.2	650	12	8.5	TP4S
		1.2	42.5	45	30	37.5	20.3	1.2	650	13	8	P422
		0.47	47.5	31	17	42.5	5.1	1	600	8.5	8.5	TP4A
		0.6	47.5	33	20	42.5	10.2	1	600	9.5	6	P470
		0.75	47.5	35	23	42.5	10.2	1.2	600	10	5.5	TP4D
		0.82	47.5	37	24	42.5	10.2	1.2	600	11	5.5	P471
		1	47.5	40	28	42.5	10.2	1.2	600	12	5	TP4M
		1.2	47.5	45	30	42.5	20.3	1.2	600	13	5	P470
		1.5	47.5	48	33	42.5	20.3	1.2	600	15	5	P471
		1.8	47.5	49.5	40	42.5	20.3	1.2	600	17	4.5	TP4X
		2	47.5	49.5	40	42.5	20.3	1.2	600	18	4.5	TP4X
		1.2	57.5	38	23	52.5	10.2	1.2	400	12.5	7.5	TP57
		1.5	57.5	45	30	52.5	20.3	1.2	400	14	7	P570
1.8	57.5	45	30	52.5	20.3	1.2	400	16	6.5	P570		
2.2	57.5	50	35	52.5	20.3	1.2	400	18	5	TP5E		
2.5	57.5	50	35	52.5	20.3	1.2	400	19	4	TP5E		
3	57.5	57.5	38	52.5	20.3	1.2	400	20	4	P571		

FILM CAPACITORS

IGBT Snubber capacitor - SCH-Cu

U <sub>R</sub> VDC	Vrms for f<1kHz VAC	容量 (uF)	宽度 W ( mm)	高度 H ( mm)	厚度 T ( mm)	P	Pitch1	d /LT	dV/dT (V/μs)	I <sub>rms</sub> 100 kHz(A)	ESR 100kHz m	C.C
1600	600	0.047	26	20	11	27.5	-	1	1900	4	13	P260
		0.068	26	23	13	27.5	-	1	1900	5	12.5	P262
		0.1	26	27	16	27.5	-	1	1900	6	12.5	P264
		0.15	26	30	20	27.5	-	1	1900	6.5	12	P265
		0.22	26	34	24	27.5	-	1	1900	7	11	P266
		0.068	32	20	11	27.5	-	1	1300	4.5	13	TP32
		0.082	32	22	13	27.5	-	1	1300	5	12	TP34
		0.1	32	25	15	27.5	-	1	1300	5.5	11	TP36
		0.15	32	28	17	27.5	-	1	1300	6	11	TP37
		0.18	32	30	18	27.5	-	1	1300	6.5	11	TP39
		0.22	32	31	22	27.5	-	1	1300	7.5	10	TP3F
		0.24	32	35	20	27.5	-	1	1300	7.5	9	TP3c
		0.27	32	37	22	27.5	-	1	1300	8	8	TP3C
		0.27	42.5	28	17	37.5	-	1	800	7.5	9	TP49
		0.33	42.5	30	22	37.5	-	1	800	8.5	8	TP4R
		0.39	42.5	33.5	22	37.5	10.2	1	800	9	7	TP45
		0.47	42.5	40	20	37.5	10.2	1	800	10	7.5	P421
		0.68	42.5	44	24	37.5	10.2	1.2	800	12	7.5	TP4W
		0.82	42.5	45	30	37.5	20.3	1.2	800	13	7	P422
		0.33	47.5	31	17	42.5	5.1	1	600	8.5	9	TP4A
		0.47	47.5	35	23	42.5	10.2	1	600	10.5	8	TP4D
		0.68	47.5	40	28	42.5	10.2	1.2	600	12.5	7	TP4M
		0.82	47.5	45	30	42.5	20.3	1.2	600	13.5	7	P470
		1	47.5	48	33	42.5	20.3	1.2	600	14.5	6	P471
		1.2	47.5	49.5	40	42.5	20.3	1.2	600	15	5	TP4X
		1.4	47.5	49.5	40	42.5	20.3	1.2	600	16	4.5	TP4X
		0.68	57.5	38	23	52.5	10.2	1.2	400	12.5	7.5	TP57
		0.82	57.5	38	26	52.5	10.2	1.2	400	13	7	TP58
		1	57.5	45	25	52.5	10.2	1.2	400	14	6.7	TP56
		1.2	57.5	45	30	52.5	20.3	1.2	400	15	6.2	P570
1.5	57.5	50	35	52.5	20.3	1.2	400	16	5.5	TP5E		
1.8	57.5	57.5	38	52.5	20.3	1.2	400	18	5	P571		
2	57.5	57.5	38	52.5	20.3	1.2	400	20	5	P571		

IGBT Snubber capacitor - SCH-Cu

U <sub>R</sub> VDC	Vrms for f<1kHz VAC	容量 (uF)	宽度 W ( mm)	高度 H ( mm)	厚度 T ( mm)	P	Pitch1	d /LT	dV/dT (V/μs)	I <sub>rms</sub> 100 kHz(A)	ESR 100kHz m	C.C
2000	700	0.033	26	20	11	22.5	-	1	2400	4	13	P260
		0.047	26	23	13	22.5	-	1	2400	4.5	12.5	P262
		0.068	26	27	16	22.5	-	1	2400	5.5	12	P264
		0.1	26	30	20	22.5	-	1	2400	6.5	11	P265
		0.15	26	34	24	22.5	-	1	2400	7	10	P265
		0.033	32	20	11	27.5	-	1	1500	3.5	14	TP32
		0.047	32	22	13	27.5	-	1	1500	4	13	TP34
		0.068	32	25	15	27.5	-	1	1500	5	12	TP36
		0.082	32	25	15	27.5	-	1	1500	5.5	11	TP36
		0.1	32	28	17	27.5	-	1	1500	6	11	TP37
		0.15	32	33	18	27.5	-	1	1500	7	10	TP3A
		0.18	32	35	20	27.5	-	1	1500	8	9	TP3c
		0.2	32	37	22	27.5	-	1	1500	8	8	TP3C
		0.22	47.5	31	17	42.5	-	1	700	8.5	7	TP4A
		0.27	47.5	31	20	42.5	10.2	1	700	9	6	TP4B
		0.33	47.5	35	23	42.5	10.2	1	700	10.5	5	TP4D
		0.47	47.5	40	28	42.5	10.2	1.2	700	12	5	TP4M
		0.68	47.5	45	30	42.5	20.3	1.2	700	13	5	P470
		0.82	47.5	48	33	42.5	20.3	1.2	700	14	5	P471
		0.56	57.5	38	23	52.5	10.2	1.2	500	12	5	TP57
		0.68	57.5	38	26	52.5	10.2	1.2	500	13	5	TP58
		0.82	57.5	40	30	52.5	20.3	1.2	500	14	4.5	TP59
		1	57.5	50	35	52.5	20.3	1.2	500	15	4	TP5E
1.2	57.5	50	35	52.5	20.3	1.2	500	16	4	TP5E		
1.5	57.5	57.5	38	52.5	20.3	1.2	500	17	3	P571		