

IGBT缓冲吸收电容

Snubber Capacitor For IGBT



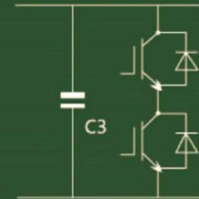
MKPS-TE Series



应用 / Application

- IGBT缓冲吸收;
IGBT Snubber;
- 广泛应用于电力电子设备中开关器件关断时的尖峰电压, 尖峰电流吸收保护。
Widely used in power electronic equipment when the peak voltage, peak current absorption protection.

典型应用电路 / Typical Circuit

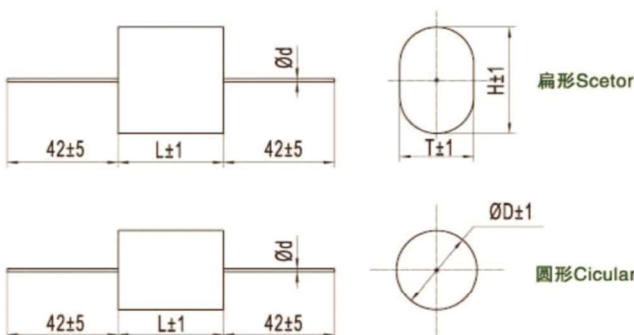


Snubber Capacitors(C3)

特点 / Introduction

- 迈拉胶带封装, 阻燃环氧树脂注塑;
Mylar tape, Sealed with epoxy resin;
- 镀锡铜线引出, 方便安装;
Tin plated copper wire lead, convenient installation;
- 无感式结构, ESL低、ESR小, 高脉冲电流, 高DV/DT承受能力; 耐压高, 损耗小, 温升低, 寿命长等特点。
Non inductive structure, ESL low, ESR small, high pulse current, high DV/DT bearing capacity, high pressure, low loss, low temperature rise, long life and so on.

外形图 / Outline Drawing



技术参数 / Technical Data

执行标准 Implemented Standard	GB/T 17702、IEC61071
气候等级 Climatic Category	40/85/21
额定电压 (Un) Rated Voltage	630V.DC~4000V.DC
容量范围 (Cn) Capacitance Range	0.0068 μ F~10 μ F
容量偏差 Capacitance Tolerance	±5%(J)、±10%(K)
耐电压 Withstand Voltage	
极间 Between Terminals	1.5Un(VDC)/60S
绝缘电阻 Insulation Resistance	≥5000S(100VDC,60S at 20°C)

常用规格 / Dimension

Cn (μ F)	Dimension(mm)			Φd	DV/DT (V/μ S)	Ipk(A)	ESR (mΩ)	ESL (nH)	Irms(A) @40°C	
	L	T	H							
Un 630V.DC Us 945V Ur400V.AC										
0.33	32	12	20	1.2	200	66	13	15	10	
0.47	32	14.5	22.5	1.2	220	103	11	15	10	
0.68	32	18	26	1.2	180	66	10	15	10	
1.5	37	13.5	21.5	1.2	150	225	7	18	10	
6.8	57	34	46.5	1.2	180	1224	3.5	25	15	
Un 1200V.DC Us 1800V Ur550V.AC										
0.15	32	10	17.5	1.2	1200	180	18	15	10	
0.47	32	17.5	30	1.2	1200	564	10	15	10	
0.68	32	21.5	34	1.2	1100	748	8	15	12	
1.5	44	26.5	39	1.2	950	1425	5	20	14	
4.7	57	38	53.5	1.2	420	1974	3	25	20	
Un 1700V.DC Us 2550V Ur600V.AC										
0.1	32	9.5	17.5	1.2	1300	130	18	15	10	
0.33	32	18.5	26.5	1.2	1200	396	12	15	12	
0.47	44	16	24	1.2	1000	470	9	20	13	
0.68	44	20	28	1.2	1000	680	8	20	14	
1.5	57	24	32	1.2	750	1125	5	25	15	
Un 2000V.DC Us 3000V Ur700V.AC										
0.068	32	9	17	1.2	1500	102	25	15	10	
0.33	37	20	28	1.2	1250	413	12	15	12	
0.68	44	24	36.5	1.2	1000	680	8	20	15	
1	57	23.5	36	1.2	950	950	6	25	16	
2	57	33	48.5	1.2	750	1500	4.2	25	18	
Un 3000V.DC Us 4500V Ur750V.AC										
0.047	44	13.5	21.5	1.2	2000	94	22	20	10	
0.068	44	17	25	1.2	1800	123	20	20	12	
0.1	44	20.5	28.5	1.2	1500	150	18	20	14	
0.15	44	26	28.5	1.2	1350	203	16	22	15	
0.22	44	29	41.5	1.2	1200	264	15	22	16	

GTO 缓冲吸收电容

Buffer Absorption Capacity For GTO



MKPS-TC Series

应用 / Application

- GTO缓冲吸收;
GTO Snubber
- 广泛应用于电力电子设备中开关器件关断时的尖峰电压, 尖峰电流吸收保护。

Widely used in power electronic equipment when the peak voltage, peak current absorption protection.

典型应用电路 / Typical Circuit

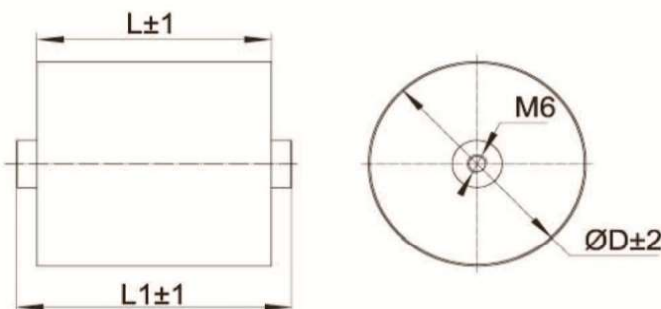


Snubber Capacitors(C3)

特点 / Introduction

- 迈拉胶带封装, 阻燃环氧树脂注塑;
Mylar tape, Sealed with epoxy resin;
- 镀锡铜线引出, 方便安装;
Tin plated copper wire lead, convenient installation;
- 无感式结构, ESL低、ESR小, 高脉冲电流, 高DV/DT承受能力; 耐压高, 损耗小, 温升高, 寿命长等特点。
Non inductive structure, ESL low, ESR small, high pulse current, high DV/DT bearing capacity, high pressure, low loss, low temperature rise, long life and so on.

外形图 / Outline Drawing



技术参数 / Technical Data

执行标准 Implemented Standard	GB/T 17702、IEC61071
气候等级 Climatic Category	40/85/21
额定电压 (Un) Rated Voltage	3000V.DC~20000V.DC
容量范围 (Cn) Capacitance Range	0.068 μ F~3 μ F
容量偏差 Capacitance Tolerance	± 5%(J)、± 10% (K)
耐电压 Withstand Voltage	
极间 Between Terminals	1.5Un(VDC)/60S
绝缘电阻 Insulation Resistance	≥ 5000S(100VDC,60S at 20℃)

常用规格 / Dimension

Cn (μ F)	Dimension(mm)			ESL (nH)	DV/DT (V/μ S)	Ipk(A)	Imax(A) @ 40℃ 10KHz
	ΦD	L	L1				
Un 3000V.DC							
0.22	35	44	52	25	1100	242	30
0.33	43	44	52	25	1000	330	35
0.47	51	44	52	22	850	399	45
0.68	61	44	52	22	800	544	55
1	74	44	52	20	700	700	65
1.2	80	44	52	20	650	780	75
Un 6000V.DC							
0.22	43	60	72	25	1500	330	35
0.33	52	60	72	25	1200	396	45
0.47	62	60	72	25	1000	470	50
0.68	74	60	72	22	900	612	60
1	90	60	72	22	800	900	75
Un 7000V.DC							
0.22	45	57	72	25	1100	242	30
0.68	36	80	92	28	1000	680	25
1	43	80	92	28	850	850	30
1.5	52	80	92	25	800	1200	35
1.8	57	80	92	25	700	1260	40
2	60	80	92	23	650	1300	45
3	73	80	92	22	500	1500	50
Un 8000V.DC							
0.33	35	90	102	30	1100	363	25
0.47	41	90	102	28	1000	470	30
0.68	49	90	102	28	850	578	35
1	60	90	102	25	800	800	40
1.5	72	90	102	25	700	1050	45
2	83	90	102	25	650	1300	50

IGBT缓冲吸收电容

Snubber Capacitor For IGBT



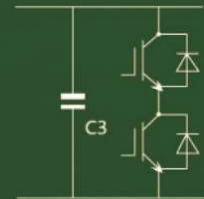
MKPS-P Series



应用 / Application

- IGBT缓冲吸收;
IGBT Snubber;
- 广泛应用于电力电子设备中开关器件关断时的尖峰电压, 尖峰电流吸收保护。
Widely used in power electronic equipment when the peak voltage, peak current absorption protection.

典型应用电路 / Typical Circuit



Snubber Capacitors(C3)

特点 / Introduction

- 迈拉胶带封装, 阻燃环氧树脂注塑;
Mylar tape, Sealed with epoxy resin;
- 镀锡铜线引出, 方便安装;
Tin plated copper wire lead, convenient installation;
- 无感式结构, ESL低、ESR小, 高脉冲电流, 高DV/DT承受能力; 耐压高, 损耗小, 温升低, 寿命长等特点。
Non inductive structure, ESL low, ESR small, high pulse current, high DV/DT bearing capacity, high pressure, low loss, low temperature rise, long life and so on.

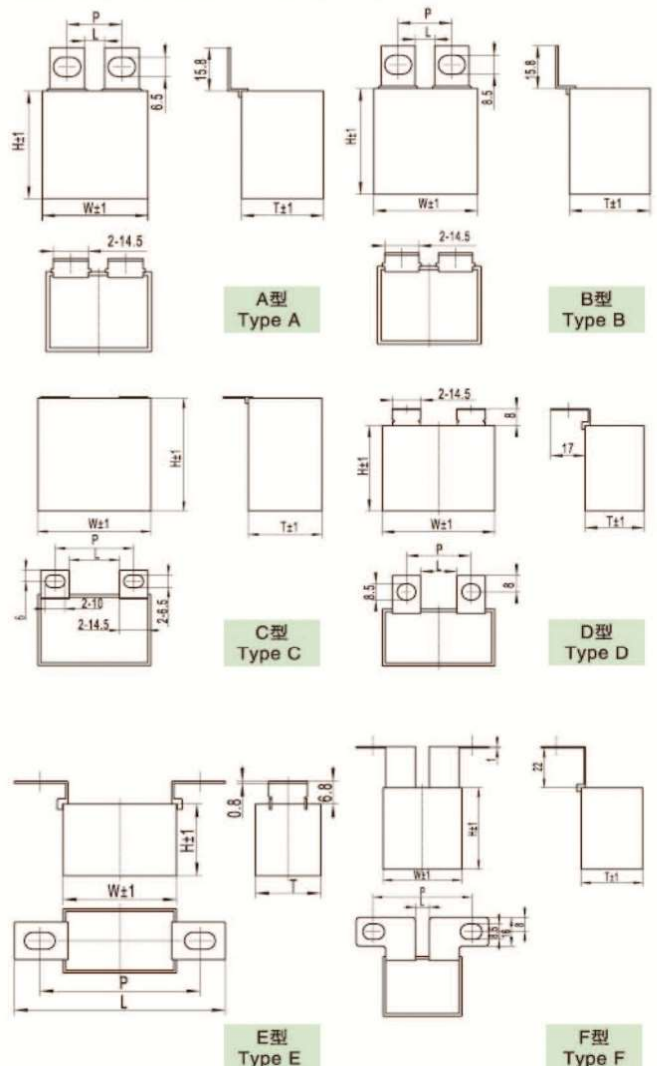
技术参数 / Technical Data

执行标准 Implemented Standard	GB/T 17702、IEC61071
气候等级 Climatic Category	40/85/21
额定电压 (Un) Rated Voltage	630V.DC~4000V.DC
容量范围 (Cn) Capacitance Range	0.0068 μ F~10 μ F
容量偏差 Capacitance Tolerance	$\pm 5\%$ (J)、 $\pm 10\%$ (K)
耐电压 Withstand Voltage	
极间 Between Terminals	1.5Un(VDC)/60S
绝缘电阻 Insulation Resistance	$\geq 5000S(100VDC, 60S \text{ at } 20^\circ C)$

外形类型描述 Type Description

项目	W	L	P	Output
Type A	42.5	10.5	22-29	M6
	57.5	10.5	22-29	M6
	57.5	25.5	37-44	M6
Type B	42.5	10.5	24-26	M8
	42.5	8	21-23	M8
	57.5	10.5	24-26	M8
Type C	57.5	24	37-39	M8
	42.5	10.5	22-29	M6
	57.5	25.5	37-44	M6
Type D	42.5	10.5	24-26	M8
	42.5	8.5	22-24	M8
	57.5	10.5	24-26	M8
Type E	57.5	23.5	37-39	M8
	42.5	80.5	60.5-64.5	M6
	57.5	95.5	75.5-79.5	M6
Type F	57.5	21	51.5-62.5	M6

外形图 / Outline Drawing



IGBT缓冲吸收电容

Snubber Capacitor For IGBT



MKPS-P Series

常用规格 / Dimension

Cn (μ F)	Dimension(mm)			Type	ESR (m Ω)	ESL (nH)	DV/DT (V/ μ S)	Ipk(A)	Irms(A) @40 $^{\circ}$ C
	W	T	H						
Un 700V.DC		Us 1050V		Ur400V.AC					
0.47	42.5	24.5	27.5	A/B/C/D/E	12	25	500	235	8
0.68	42.5	24.5	27.5	A/B/C/D/E	10	25	480	326	10
1	42.5	24.5	27.5	A/B/C/D/E	8	24	450	450	12
1.5	42.5	33.5	35.5	A/B/C/D/E	7	25	430	645	5
2	42.5	33	35.5	A/B/C/D/E	6	24	420	840	15
2.5	42.5	33.5	45	A/B/C/D/E	6	23	400	1000	18
3	42.5	33	45	A/B/C/D/E	5.5	22	380	1140	20
3	57.5	30	45	A/B/C/D/E/F	5	26	350	1050	22
3.5	42.5	33	45	A/B/C/D/E	5	23	350	1225	25
3.5	57.5	30	45	A/B/C/D/E/F	5	25	300	1050	22
4.7	57.5	35	50	A/B/C/D/E/F	5	28	280	1316	25
5.6	57.5	38	54	A/B/C/D/E/F	4	30	250	1400	25
6	57.5	38	54	A/B/C/D/E/F	3.5	33	230	1380	28
6.8	57.5	42.5	56	A/B/C/D/E/F	3.2	32	220	1496	32
8	57.5	42.5	56	A/B/C/D/E/F	2.8	30	200	1600	33
Un 1000V.DC		Us 1500V		Ur500V.AC					
0.47	42.5	24.5	27.5	A/B/C/D/E	11	25	1000	470	10
0.68	42.5	24.5	27.5	A/B/C/D/E	8	25	800	544	12
1	42.5	33.5	35.5	A/B/C/D/E	6	24	800	800	15
1.5	42.5	33	45	A/B/C/D/E	6	24	700	1050	15
2	42.5	33	45	A/B/C/D/E	5	22	700	1400	20
2.5	57.5	30	45	A/B/C/D/E/F	5	30	600	1500	22
3	57.5	35	50	A/B/C/D/E/F	4	30	600	1800	25
3.3	57.5	35	50	A/B/C/D/E/F	3.5	28	550	1815	25
3.5	57.5	38	54	A/B/C/D/E/F	3.5	28	500	1750	25
4	57.5	38	54	A/B/C/D/E/F	3.2	26	500	2000	28
4.7	57.5	42.5	56	A/B/C/D/E/F	3	25	420	1974	30
5.6	57.5	42.5	56	A/B/C/D/E/F	2.8	24	400	2240	32
Un 1200V.DC		Us 1800V		Ur550V.AC					
0.47	42.5	24.5	27.5	A/B/C/D/E	11	24	1200	564	10
0.68	42.5	33.5	35.5	A/B/C/D/E	7	23	1100	748	12
1	42.5	33.5	35.5	A/B/C/D/E	6	22	800	800	14
1.5	42.5	33	45	A/B/C/D/E	5	20	800	1200	15
2	57.5	30	45	A/B/C/D/E/F	4	30	750	1500	20
2.5	57.5	30	45	A/B/C/D/E/F	4	28	700	1750	25
3	57.5	35	50	A/B/C/D/E/F	4	27	600	1800	25
3.3	57.5	38	54	A/B/C/D/E/F	4	27	550	1815	28
3.5	57.5	38	54	A/B/C/D/E/F	3.5	25	500	1750	28
4	57.5	38	54	A/B/C/D/E/F	3.5	25	450	1800	30
4.7	57.5	42.5	56	A/B/C/D/E/F	3.2	23	420	1974	32

Cn (μ F)	Dimension(mm)			Type	ESR (m Ω)	ESL (nH)	DV/DT (V/ μ S)	Ipk(A)	Irms(A) @40 $^{\circ}$ C
	W	T	H						
Un 1700V.DC		Us 2250V		Ur575V.AC					
0.33	42.5	24.5	27.5	A/B/C/D/E	12	25	1300	429	9
0.47	42.5	33.5	35.5	A/B/C/D/E	10	24	1300	611	10
0.68	42.5	33.5	35.5	A/B/C/D/E	8	23	1300	884	12
1	42.5	33	45	A/B/C/D/E	7	22	1200	1200	15
1.5	42.5	33	45	A/B/C/D/E	6	22	1200	1800	18
1.5	57.5	30	45	A/B/C/D/E/F	5	31	1200	1800	20
2	57.5	30	45	A/B/C/D/E/F	5	30	1100	2200	22
2.5	57.5	30	50	A/B/C/D/E/F	4	28	1100	2750	25
3	57.5	38	54	A/B/C/D/E/F	4	27	700	2100	25
3.3	57.5	38	54	A/B/C/D/E/F	3.8	26	600	1980	28
3.5	57.5	42.5	56	A/B/C/D/E/F	3.5	25	500	1750	30
4	57.5	42.5	56	A/B/C/D/E/F	3.2	25	450	1800	32
Un 2000V.DC		Us 3000V		Ur700V.AC					
0.22	42.5	24.5	27.5	A/B/C/D/E	15	25	1500	330	10
0.33	42.5	33.5	35.5	A/B/C/D/E	12	24	1500	495	12
0.47	42.5	33.5	35.5	A/B/C/D/E	11	23	1400	658	15
0.68	42.5	33	45	A/B/C/D/E	8	22	1200	816	18
0.68	57.5	30	45	A/B/C/D/E/F	7	30	1100	748	20
0.82	42.5	33	45	A/B/C/D/E	7	28	1200	984	22
1	57.5	30	45	A/B/C/D/E/F	6	28	1100	1100	25
1.5	57.5	35	50	A/B/C/D/E/F	5	25	1000	1500	28
2	57.5	38	54	A/B/C/D/E/F	5	24	800	1600	28
2.2	57.5	42.5	56	A/B/C/D/E/F	4	23	700	1540	32
Un 3000V.DC		Us 4500V		Ur750V.AC					
0.15	42.5	33	45	A/B/C/D/E	18	28	2500	375	25
0.22	42.5	33	45	A/B/C/D/E	15	27	2200	484	28
0.22	57.5	35	50	A/B/C/D/E/F	15	25	2000	330	20
0.33	57.5	35	50	A/B/C/D/E/F	12	24	1800	495	20
0.47	57.5	38	54	A/B/C/D/E/F	11	23	1600	752	22
0.68	57.5	42.5	56	A/B/C/D/E/F	8	22	1500	1020	28