

C34

IGBT Snubber Protection Capacitor

IGBT缓冲吸收电容器

C34



产品特点.Characteristics

- 塑料外壳, 干式树脂灌注;
- 镀锡铜线引出;
- 耐压高, 损耗(tgδ)小, 温升低;
- 自感(ESL)小, 等效串联电阻(ESR)小;
- 高脉冲电流、高dv/dt 承受能力
- Plastic shell, Sealed with epoxy resin
- Tinned plated copper wire extraction
- Resistance to high voltage, low dissipation factor
- Low ESL, low ESR, low temperature rise
- High pulse current, High dv/dt affordability

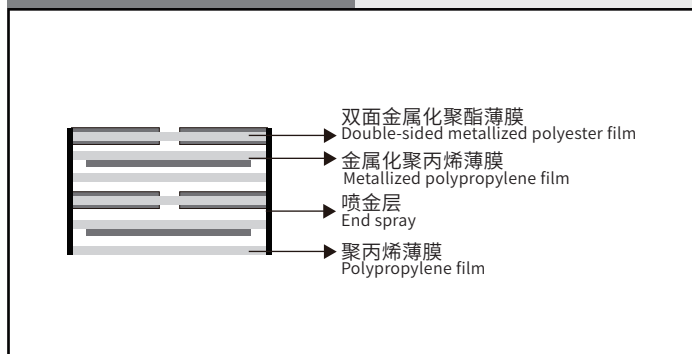
产品应用.Application

- IGBT 缓冲吸收;
- 广泛应用于电力电子装置UPS、逆变器、感应加热、电焊机设备的尖峰电压、尖峰电流吸收保护;
- IGBT Snubber circuit; IGBT Snubber equipment
- Widely used in power electronic equipment UPS, inverter, induction heater, welding machine for protect and absorb peak current and peak voltage.

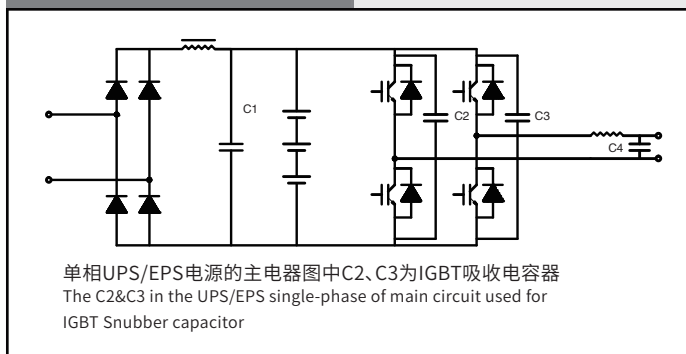
性能参数.Technical Data

● 引用标准Reference Standard	IEC61071 .GB/T17702
● 工作温度范围Operating Temperature Range	-40°C~85°C Tmax +105°C
● 容量范围Capacitance Range	0.0068μF -5.6μF
● 额定电压Rated Voltage	700 VDC -3000VDC
● 容量偏差Capacitance Tolerance	±5%(J); ±10%(K)
● 耐电压Withstand Voltage	1.5Un Dc/10S at 20°C
● 损耗角正切Dissipation Factor	tgδ ≤ 0.0005 C ≤ 1μF f=10KHz at 20°C
	Tgδ ≤ 0.0010 C ≥ 1μF f=10KHz at 20°C
● 绝缘电阻Insulation Resistance	C ≤ 0.33μF Rs ≥ 30000MΩ (at 20°C 100VDC 60S)
	C > 0.33 μF Rs ≥ 10000S (at 20°C 100VDC 60S)
● 阻燃性Flame Retardation	UL94V-0
● 预期寿命Life Expectancy	100000hrs (Un θhotspot ≤ 85°C)

结构图.Construction Diagram



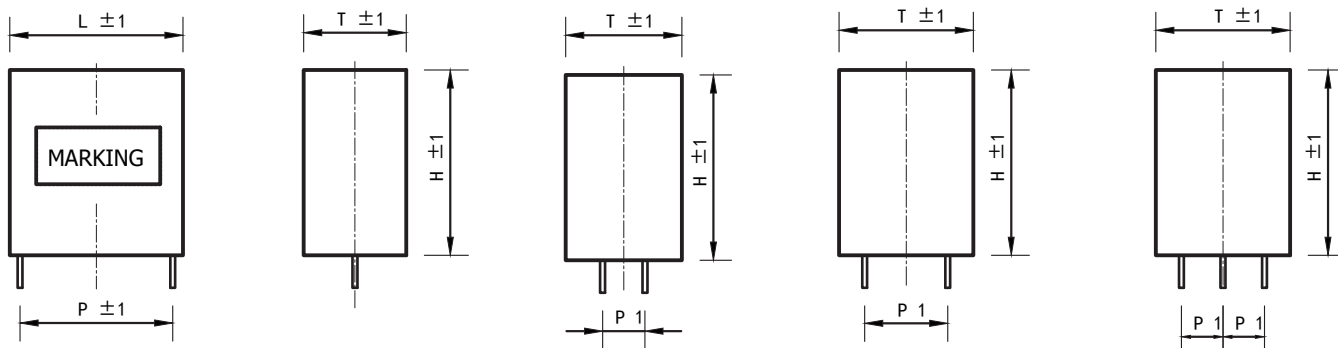
典型线路图.Typical Circuit



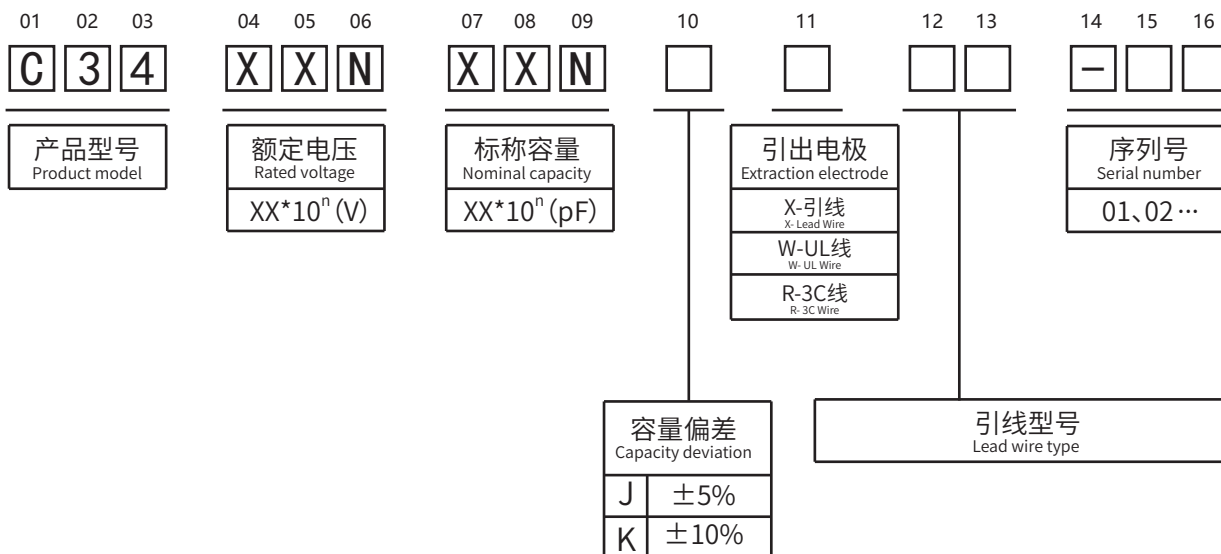
C34

IGBT Snubber Protection Capacitor

产品外形.Product Shape



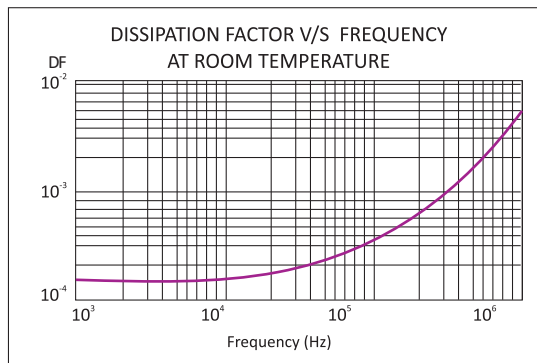
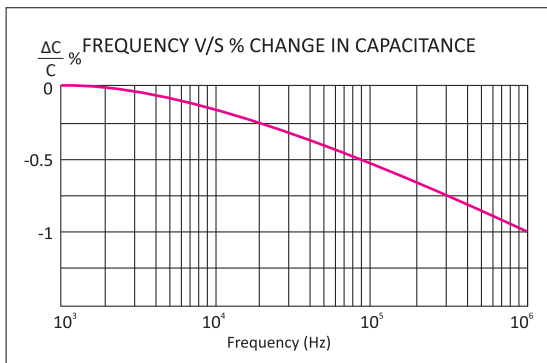
产品编码.Product Coding



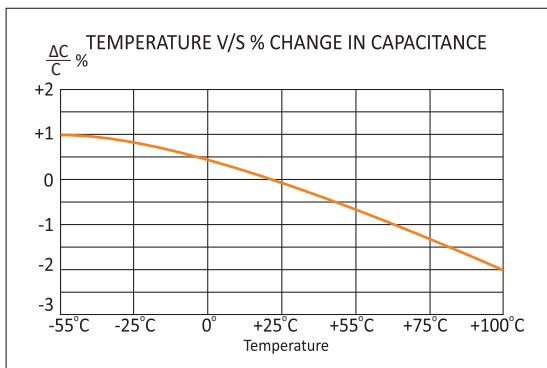
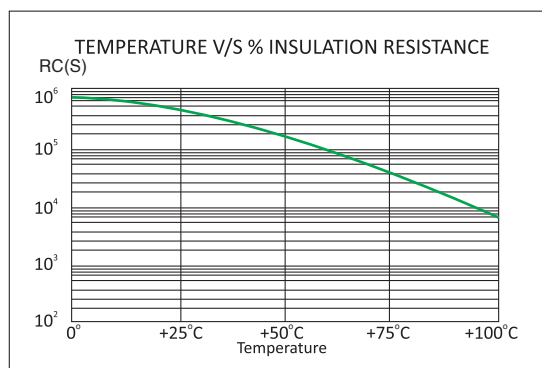
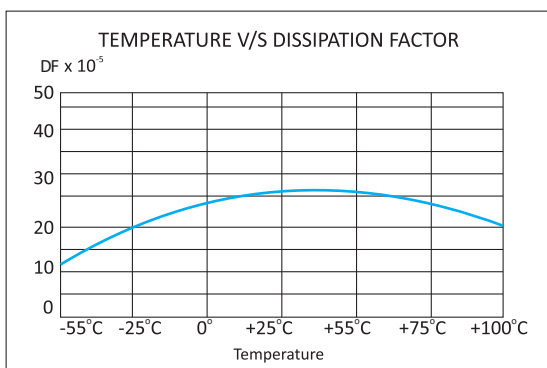
C34

IGBT Snubber Protection Capacitor

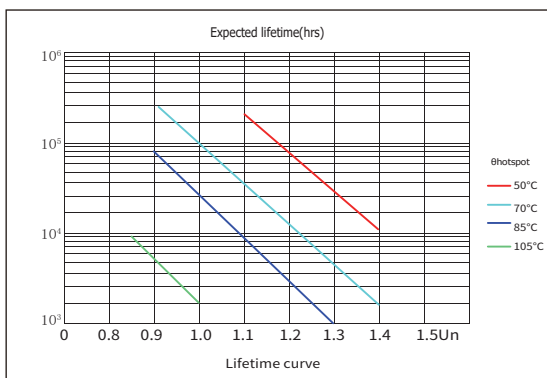
频率特性. Temperature Characteristics



温度特性. Frequency Characteristics



预期寿命 Life Expectancy



C34

IGBT Snubber Protection Capacitor

参数表, Article Table

Part Number	CAP μF	Dimension (mm)						dv/dt (V/μs)	Ipeak (A)	Irms @100KHz70℃ (A)	ESL (nH)	ESR @100KHz20℃ (mΩ)
		L	T	H	P	P1	d					
U _N 700VDC U _{rms} 380VAC U _{pk} 1000VDC												
C34701104JX08•••	0.1	26.5	8.5	17.0	22.5		0.8	350	35.0	3.5	28	24
C34701154JX08•••	0.15	26.5	10.0	18.5	22.5		0.8	350	52.5	5.0	25	20
C34701224JX08•••	0.22	26.5	11.0	20.0	22.5		0.8	330	72.6	6.5	20	15
C34701224JX10•••	0.22	31.0	11.0	20.0	27.5		1.0	300	66.0	6.5	24	16
C34701334JX10•••	0.33	31.0	13.0	22.0	27.5		1.0	300	99.0	8.5	22	14
C34701474JX10•••	0.47	31.0	15.0	24.5	27.5		1.0	280	131.6	9.0	21	12
C34701684JX12•••	0.68	31.0	17.0	28.0	27.5		1.2	280	190.4	12.0	20	11
C34701105JX12•••	1.0	31.0	22.0	31.0	27.5	10.2	1.2	280	280	13.5	19	7.0
C34701105JX12•••	1.0	42.5	17.0	28.0	37.5		1.2	250	250	12.5	30	7.5
C34701155JX12•••	1.5	42.5	22.0	30.0	37.5	10.2	1.2	250	375	16.0	28	7.0
C34701205JX12•••	2.0	42.5	28.0	37.0	37.5	20.3	1.2	220	440	18.0	25	6.0
C34701225JX12•••	2.2	42.5	28.0	37.0	37.5	20.3	1.2	220	484	18.5	25	6.0
C34701305JX12•••	3.0	42.5	30.0	45.0	37.5	10.2	1.2	200	600	21.0	23	5.0
C34701335JX12•••	3.3	42.5	30.0	45.0	37.5	10.2	1.2	200	660	21.5	22	5.0
C34701405JX12•••	4.0	42.5	33.0	45.0	37.5	10.2	1.2	180	720	23.0	20	4.0
C34701405JX12•••	4.0	57.5	30.0	45.0	52.5	10.2	1.2	180	720	22.0	33	4.5
C34701475JX12•••	4.7	57.5	30.0	45.0	52.5	10.2	1.2	150	705	23.5	32	3.8
C34701565JX12•••	5.6	57.5	35.0	50.0	52.5	10.2	1.2	150	840	25.0	32	3.5
U _N 1000VDC U _{rms} 450VAC U _{pk} 1400VDC												
C34102683JX08•••	0.068	26.5	8.5	17.0	22.5		0.8	1300	88.4	3.2	16	25
C34102104JX08•••	0.1	26.5	11.0	20.0	22.5		0.8	1300	130	4.5	17	23.0
C34102154JX08•••	0.15	26.5	12.0	22.0	22.5		0.8	1300	195	6.0	18	19.0
C34102154JX08•••	0.15	31.0	11.0	20.0	27.5		0.8	1200	180	5.5	20	20.0
C34102224JX10•••	0.22	31.0	15.0	24.5	27.5		1.0	1200	264	7.0	20	15.0
C34102334JX10•••	0.33	31.0	17.0	28.0	27.5		1.0	1100	363	8.5	21	13.0
C34102474JX12•••	0.47	31.0	18.0	33.0	27.5		1.2	1000	470	10.5	22	9.5
C34102474JX12•••	0.47	42.5	17.0	28.0	37.5		1.2	950	446.5	9.0	24	10.0
C34102684JX12•••	0.68	42.5	22.0	30.0	37.5	10.2	1.2	900	612	12.0	25	6.0
C34102105JX12•••	1.0	42.5	28.0	37.0	37.5	20.3	1.2	850	850	15.5	27	5.6
C34102155JX12•••	1.5	42.5	30.0	45.0	37.5	10.2	1.2	850	1275	18.0	29	5.0
C34102205JX12•••	2.0	42.5	33.0	45.0	37.5	10.2	1.2	750	1500	20.0	30	4.5
C34102205JX12•••	2.0	57.5	30.0	45.0	52.5	10.2	1.2	600	1200	18.5	32	4.8
C34102225JX12•••	2.2	57.5	30.0	45.0	52.5	10.2	1.2	550	1210	19.0	32	4.2
C34102305JX12•••	3.0	57.5	35.0	50.0	52.5	10.2	1.2	500	1500	22.0	34	3.5
C34102335JX12•••	3.3	57.5	35.0	50.0	52.5	10.2	1.2	500	1650	22.5	36	3.2

以上表格/图形仅供参考, 以实物为准, (单位:mm)

The above table / graphics are for reference only, subject to the actual product (unit: mm)

C34

IGBT Snubber Protection Capacitor

参数表.Article Table

Part Number	CAP μF	Dimension (mm)						dv/dt (V/μs)	I _{peak} (A)	I _{rms} @100KHz70℃ (A)	ESL (nH)	ESR @100KHz20℃ (mΩ)
		L	T	H	P	P1	d					
U _N 1200VDC U _{rms} 500VAC U _{pk} 1600VDC												
C34122473JX08•••	0.047	26.5	8.5	17.0	22.5		0.8	1500	70.5	3.5	15	27
C34122683JX08•••	0.068	26.5	10.0	18.5	22.5		0.8	1500	102	4.0	16	23
C34122683JX08•••	0.068	31.0	9.0	18.0	27.5		0.8	1300	88.4	4.0	18	25
C34122104JX08•••	0.1	26.5	12.0	22.0	22.5		0.8	1400	140	5.0	17	19
C34122104JX08•••	0.1	31.0	11.0	20.0	27.5		0.8	1200	120	5.0	19	20
C34122154JX10•••	0.15	31.0	13.0	22.0	27.5		1.0	1200	180	6.5	20	18
C34122224JX10•••	0.22	31.0	15.0	24.5	27.5		1.0	1200	264	7.0	22	15
C34122334JX12•••	0.33	31.0	18.0	33.0	27.5		1.2	1200	396	8.5	23	11
C34122334JX12•••	0.33	42.5	15.0	26.0	37.5		1.2	1100	363	8.0	25	12
C34122474JX12•••	0.47	42.5	17.0	28.0	37.5		1.2	1100	517	9.5	26	9.0
C34122684JX12•••	0.68	42.5	22.0	30.0	37.5	10.2	1.2	1100	748	12.5	27	6.0
C34122105JX12•••	1.0	42.5	28.0	37.0	37.5	20.3	1.2	1000	1000	16.0	28	5.5
C34122155JX12•••	1.5	42.5	30.0	45.0	37.5	10.2	1.2	800	1200	18.5	30	5.0
C34122205JX12•••	2.0	57.5	30.0	45.0	52.5	10.2	1.2	750	1500	19.0	32	4.8
C34122225JX12•••	2.2	57.5	30.0	50.0	52.5	10.2	1.2	750	1650	20.0	35	4.2
C34122305JX12•••	3.0	57.5	35.0	50.0	52.5	10.2	1.2	600	1800	22.0	37	3.5
U _N 1600VDC U _{rms} 500VAC U _{pk} 2000VDC												
C34162333JX08•••	0.033	26.5	8.5	17.0	22.5		0.8	1800	59.4	3.0	20	25.0
C34162473JX08•••	0.047	26.5	10.0	18.5	22.5		0.8	1600	75.2	4.0	20	22.0
C34162473JX08•••	0.047	31.0	9.0	18.0	27.5		0.8	1500	70.5	3.5	25	25.0
C34162683JX08•••	0.068	26.5	12.0	22.0	22.5		0.8	1600	108.8	5.0	20	20.0
C34162683JX08•••	0.068	31.0	11.0	20.0	27.5		0.8	1500	102	4.5	25	22.0
C34162104JX08•••	0.1	31.0	13.0	22.0	27.5		0.8	1300	130	6.5	25	18.0
C34162154JX10•••	0.15	31.0	17.0	28.0	27.5		1.0	1200	180	8.0	24	16.0
C34162224JX12•••	0.22	31.0	18.0	33.0	27.5		1.2	1200	264	9.5	24	13.5
C34162224JX12•••	0.22	42.5	17.0	28.0	37.5		1.2	1100	242	9.0	32	15.0
C34162334JX12•••	0.33	42.5	22.0	30.0	37.5	10.2	1.2	1100	363	11.0	29	12.0
C34162474JX12•••	0.47	42.5	28.0	37.0	37.5	20.3	1.2	1000	470	12.5	28	9.0
C34162684JX12•••	0.68	42.5	28.0	37.0	37.5	20.3	1.2	1000	680	14.5	27	8.0
C34162105JX12•••	1.0	42.5	30.0	45.0	37.5	10.2	1.2	900	900	17.5	26	5.6
C34162125JX12•••	1.2	57.5	30.0	45.0	52.5	10.2	1.2	800	960	18.5	35	5.5
C34162155JX12•••	1.5	57.5	35.0	50.0	52.5	10.2	1.2	750	1125	20.0	38	4.8

以上表格/图形仅供参考, 以实物为准, (单位:mm)

The above table / graphics are for reference only, subject to the actual product (unit: mm)

C34

IGBT Snubber Protection Capacitor

参数表, Article Table

Part Number	CAP μF	Dimension (mm)						dv/dt (V/μs)	Ipeak (A)	Irms @100KHz70℃ (A)	ESL (nH)	ESR @100KHz20℃ (mΩ)
		L	T	H	P	P1	d					
U _N 2000VDC Urms 630VAC Upk 2500VDC												
C34202223JX08***	0.022	26.5	8.5	17.0	22.5		0.8	1800	39.6	3.5	24	35
C34202333JX08***	0.033	26.5	11.0	20.0	22.5		0.8	1800	59.4	4.5	24	32
C34202333JX08***	0.033	31.0	11.0	20.0	27.5		0.8	1500	49.5	4.0	25	34
C34202473JX08***	0.047	26.5	12.0	22.0	22.5		0.8	1800	84.6	6.0	24	27
C34202473JX08***	0.047	31.0	11.0	20.0	27.5		0.8	1500	70.5	5.5	24	29
C34202683JX08***	0.068	31.0	13.0	22.0	27.5		0.8	1500	102	6.9	23	25
C34202104JX10***	0.1	31.0	15.0	24.5	27.5		1.0	1500	150	8.2	22	18
C34202154JX10***	0.15	31.0	18.0	33.0	27.5		1.0	1500	225	9.0	28	14
C34202154JX12***	0.15	42.5	15.0	26.0	37.5		1.2	1200	180	8.5	31	16
C34202224JX12***	0.22	42.5	22.0	30.0	37.5	10.2	1.2	1100	242	10.5	31	15
C34202334JX12***	0.33	42.5	28.0	37.0	37.5	20.3	1.2	1100	363	11.5	30	12
C34202474JX12***	0.47	42.5	28.0	37.0	37.5	20.3	1.2	1100	517	13.0	29	10
C34202684JX12***	0.68	42.5	33.0	45.0	37.5	10.2	1.2	1100	748	16.5	25	7.5
C34202684JX12***	0.68	57.5	30.0	45.0	52.5	10.2	1.2	1000	680	15.5	27	8.0
C34202105JX12***	1.0	57.5	35.0	50.0	52.5	10.2	1.2	950	950	18.5	31	6.0
U _N 3000VDC Urms 700VAC Upk 3500VDC												
C34302682JX08***	0.0068	26.5	8.5	17.0	22.5		0.8	3000	20.4	2.3	18	33
C34302103JX08***	0.01	26.5	8.5	17.0	22.5		0.8	3000	30.0	3.2	18	25
C34302103JX08***	0.01	31.0	9.0	18.0	27.5		0.8	3000	30.0	3.0	18	27
C34302223JX08***	0.022	26.5	12.0	22.0	22.5		0.8	2800	61.6	6.0	18	22
C34302223JX08***	0.022	31.0	11.0	20.0	27.5		0.8	2500	55.0	5.5	19	24
C34302333JX08***	0.033	31.0	15.0	24.5	27.5		0.8	2500	82.5	7.0	19	22
C34302473JX08***	0.047	31.0	18.0	33.0	27.5		0.8	2000	94.0	8.5	20	20
C34302104JX12***	0.1	42.5	22.0	33.0	37.5	10.2	1.2	1500	150	12.4	20	16
C34302224JX12***	0.22	42.5	30.0	45.0	37.5	10.2	1.2	1200	264	14.5	22	15
C34302334JX12***	0.33	42.5	33.0	45.0	37.5	10.2	1.2	1200	396	16.0	23	11.5
C34302474JX12***	0.47	57.5	33.0	50.0	52.5	10.2	1.2	1000	470	17.5	27	9.5

以上表格/图形仅供参考, 以实物为准, (单位: mm)

The above table / graphics are for reference only, subject to the actual product (unit: mm)