

C32

IGBT Snubber Protection Capacitor

IGBT缓冲吸收电容器

C32



产品特点.Characteristics

- 迈拉胶带封装, 阻燃环氧树脂灌注;
 - 镀锡铜线轴向引出;
 - 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
- PET tape wrapping, epoxy resin sealing
 - Axial leads with tinned copper wire
 - High voltage, small tgδ, low temperature rise
 - Low ESL and ESR
 - High pulse current ,high dv/dt

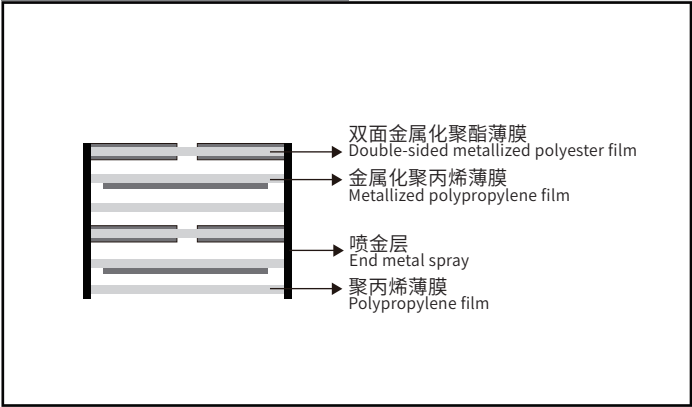
产品应用.Application

- IGBT 缓冲吸收;
- 广泛应用于电力电子装置UPS、逆变器、感应加热、电焊机等设备的尖峰电压、尖峰电流吸收保护;
- IGBT buffer absorption circuit protection; IGBT buffer absorption device
- Widely used in power electronic equipment UPS, inverter, induction heating, electric welding machine and other equipment peak voltage, peak current absorption protection

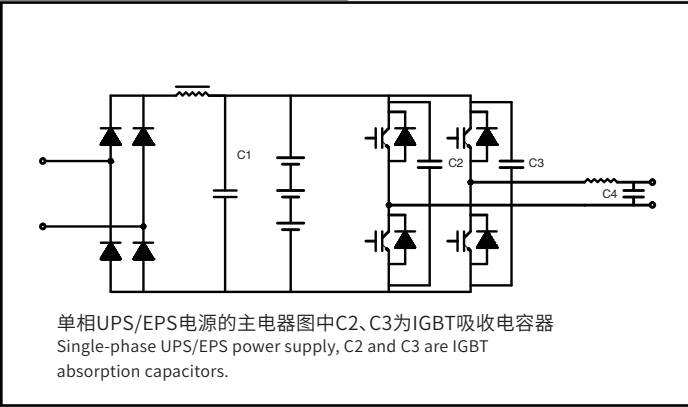
性能参数.Technical Data

● 引用标准Reference Standard	IEC61071 .GB/T17702
● 工作温度范围Operating Temperature Range	-40℃~+70℃最高温度+85℃
● 容量范围Capacitance Range	0.1μF ~5.0μF
● 额定电压Rated Voltage	700VDC~3000VDC
● 容量偏差Capacity Tolerance	±5%(J); ±10%(K)
● 耐电压Withstand Voltage	1.5Un DC/10S
● 损耗角正切Dissipation Factor	tgδ≤0.0005 C≤1μF f=10KHz at 20℃
	tgδ≤0.0010 C≥1μF f=10KHz at 20℃
● 绝缘电阻Insulation Resistance	C≥0.33μF Rs≥30000MΩ(at20℃ 100VDC 60S)
	C>0.33 μF RsC≥10000S (at20℃ 100VDC 60S)
● 阻燃性Flame Retardation	UL94V-0
● 预期寿命Life Expectancy	100000hrs (Un θhotspot ≤ 70℃)

结构图.Construction Diagram

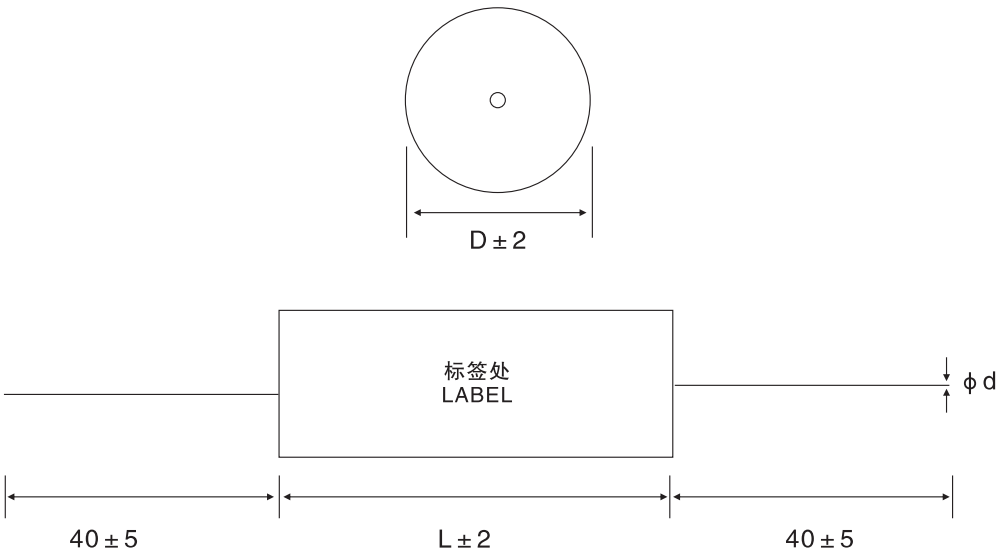


典型线路图.Typical Circuit



C32IGBT Snubber Protection Capacitor

产品外形.Product Shape



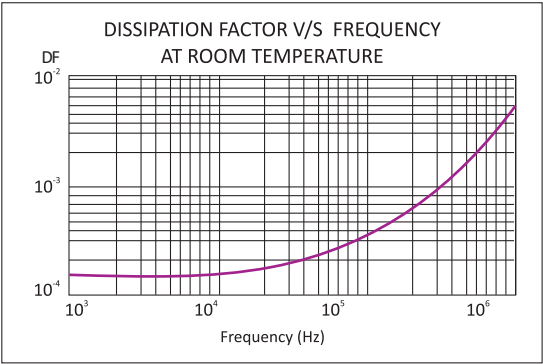
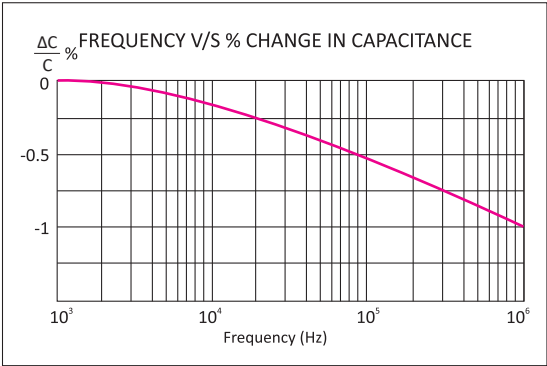
产品编码.Product Coding

01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16
C	3	2	X	X	N	X	X	N					-		
产品型号 Product model			额定电压 Rated voltage			标称容量 Nominal capacity			引出电极 Extraction electrode			序列号 Serial number			
			XX*10 ⁿ (V)			XX*10 ⁿ (pF)			X-引线 X- Lead Wire			01、02...			
									W-UL线 W- UL Wire						
									R-3C线 R- 3C Wire			引线型号 Lead wire type			

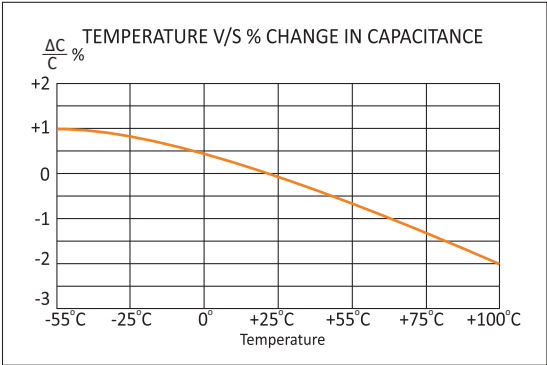
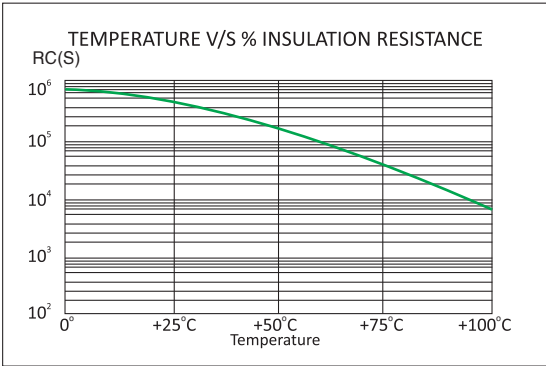
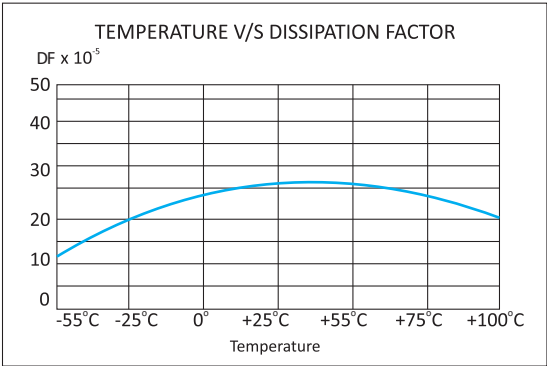
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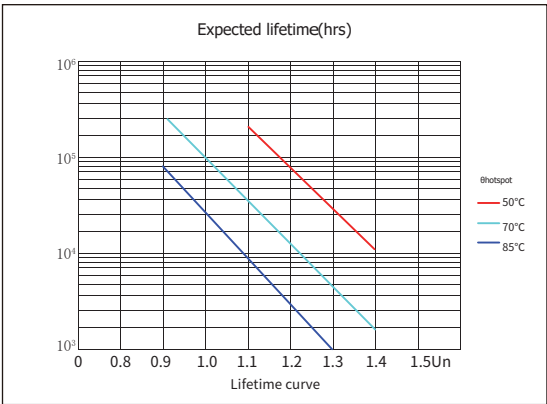
频率特性.Temperature Characteristics



温度特性.Frequency Characteristics



预期寿命 Life Expectancy



C32IGBT Snubber Protection Capacitor

参数表.Article Table

Part Number	CAP μF	Dimension (mm)			dv/dt (V/μs)	Ipeak (A)	(Irms)	ESL (nH)	ESR 100kHz20℃ (mΩ)
		L	D	d			100kHz70℃ A		
U _N 700VDC Urms 380VAC Upk 1000VDC									
C32701334JX08***	0.33	32.0	14.5	0.8	220	72.6	6.0	22	14
C32701474JX08***	0.47	32.0	16.5	0.8	200	94.0	8.0	21	12
C32701684JX10***	0.68	32.0	20.0	1.0	180	122.4	9.0	20	11
C32701105JX12***	1.0	44.0	19.0	1.2	150	150	8.5	30	7.5
C32701155JX12***	1.5	44.0	23.0	1.2	150	225	10	28	7.0
C32701205JX12***	2.0	44.0	26.0	1.2	130	260	12	25	6.0
C32701225JX12***	2.2	44.0	27.0	1.2	120	264	13	25	6.0
C32701255JX12***	2.5	44.0	29.0	1.2	120	300	13.5	24	5.5
C32701305JX12***	3.0	44.0	31.5	1.2	110	330	14.0	23	5.0
C32701355JX12***	3.5	57.0	28.5	1.2	110	385	14.2	32	4.5
C32701475JX12***	4.7	57.0	32.5	1.2	180	846	14.8	32	3.8
C32701565JX12***	5.6	57.0	35.5	1.2	180	1008	15.0	32	3.5
U _N 1000VDC Urms 480VAC Upk 1400VDC									
C32102104JX08***	0.1	32.0	11.0	0.8	1100	110	4.0	20	25
C32102154JX08***	0.15	32.0	13.0	0.8	1100	165	5.0	21	20
C32102224JX10***	0.22	32.0	15.5	1.0	1000	220	7.0	21	15
C32102334JX10***	0.33	32.0	18.5	1.0	1000	330	8.5	21	13
C32102474JX10***	0.47	32.0	22.0	1.0	1000	470	10.5	23	11
C32102684JX10***	0.68	44.0	21.0	1.0	900	612	10.2	25	6.0
C32102105JX12***	1.0	44.0	25.0	1.2	850	850	11.0	27	5.6
C32102155JX12***	1.5	44.0	30.5	1.2	850	1275	12.0	29	5.0
C32102205JX12***	2.0	57.0	29.0	1.2	600	1200	12.8	32	4.8
C32102225JX12***	2.2	57.0	30.5	1.2	550	1210	13.5	32	4.2
C32102305JX12***	3.0	57.0	35.5	1.2	480	1440	15.6	34	3.5
C32102335JX12***	3.3	57.0	37.0	1.2	450	1485	16.5	36	3.2
C32102475JX12***	4.7	57.0	44.0	1.2	400	1880	17.0	37	3.0
U _N 1200VDC Urms 500VAC Upk 1600VDC									
C32122683JX08***	0.068	32.0	10.0	0.8	1300	88.4	4.5	18	25
C32122104JX08***	0.1	32.0	11.5	0.8	1200	120	6.0	20	20
C32122154JX10***	0.15	32.0	14.5	1.0	1200	180	7.5	20	18
C32122224JX10***	0.22	32.0	17.0	1.0	1200	264	8.3	22	15
C32122334JX10***	0.33	32.0	20.5	1.0	1200	396	9.0	23	12
C32122474JX10***	0.47	44.0	22.5	1.0	1100	517	9.8	26	9.0
C32122684JX12***	0.68	44.0	23.0	1.2	1000	680	11.7	27	6.0
C32122105JX12***	1.0	44.0	27.5	1.2	1000	1000	12.4	28	5.0
C32122105JX12***	1.5	44.0	33.5	1.2	950	1425	13.5	30	5.0
C32122205JX12***	2.0	57.0	32.0	1.2	750	1500	13.8	30	4.8
C32122225JX12***	2.2	57.0	33.5	1.2	700	1540	14.5	35	4.2
C32122335JX12***	3.3	57.0	41.0	1.2	600	1980	16.5	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)

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参数表.Article Table

ParLNumber	CAP μF	Dimension（mm）			dv/dt (V/μs)	Ipeak (A)	(Irms) 100kHz70℃ A	ESL (nH)	ESR 100kHz20℃ (mΩ)
		L	D	d					
U _N 1600VDC Urms 500VAC Upk 2000VDC									
C32162473JX08***	0.047	32.0	11.5	0.8	1500	70.5	4.5	25	25
C32162683JX08***	0.068	32.0	12.5	0.8	1500	102	6.0	25	22
C32162104JX08***	0.1	32.0	16.0	0.8	1300	120	7.5	25	18
C32162154JX10***	0.15	32.0	19.0	1.0	1200	180	8.5	24	16
C32162224JX10***	0.22	32.0	23.0	1.0	1200	264	9.3	24	15
C32162334JX10***	0.33	44.0	22.0	1.0	1100	363	10.2	29	12
C32162474JX12***	0.47	44.0	26.0	1.2	1000	470	11.2	28	9.0
C32162684JX12***	0.68	44.0	31.0	1.2	1000	680	11.7	27	8.0
C32162105JX12***	1.0	44.0	37.5	1.2	900	900	12.4	26	5.6
C32162125JX12***	1.2	57.0	34.0	1.2	960	1152	12.5	35	5.5
C32162155JX12***	1.5	57.0	38.0	1.2	900	1350	14.5	36	4.8
C32162205JX12***	2.0	57.0	43.5	1.2	850	1700	16.0	37	4.5
12U _N 2000VDC Urms 630VAC Upk 2500VDC									
C32202333JX08***	0.033	32.0	11.0	0.8	1800	59.4	4.0	24	31
C32202473JX08***	0.047	32.0	12.5	0.8	1500	70.5	5.5	24	29
C32202683JX08***	0.068	32.0	15.0	0.8	1500	102	6.9	23	25
C32202104JX10***	0.1	32.0	18.0	1.0	1500	150	8.2	22	18
C32202154JX10***	0.15	44.0	17.0	1.0	1200	180	8.5	31	16
C32202224JX10***	0.22	44.0	20.5	1.0	1100	242	9.0	31	15
C32202334JX12***	0.33	44.0	24.5	1.2	1100	363	10.2	30	12
C32202474JX12***	0.47	44.0	30.0	1.2	1100	517	12.4	29	10
C32202684JX12***	0.68	57.0	29.0	1.2	1000	680	14.2	27	8.0
C32202105JX12***	1.0	57.0	35.0	1.2	950	950	14.5	31	6.0
U _N 3000VDC Urms750VAC Upk 3500VDC									
C32302223JX08***	0.022	32.0	13.0	0.8	2500	55.0	5.5	19	24
C32302333JX10***	0.033	32.0	16.0	1.0	2500	82.5	7.0	19	22
C32302473JX10***	0.047	32.0	18.5	1.0	2000	94.0	8.5	20	20
C32302683JX10***	0.068	44.0	17.5	1.0	1800	122.4	10.5	20	18
C32302104JX12***	0.1	44.0	21.0	1.2	1500	150	12.4	20	16
C32302224JX12***	0.22	44.0	30.5	1.2	1200	264	14.5	22	15
C32302334JX12***	0.33	57.0	30.5	1.2	1200	396	15.5	23	14.5
C32302474JX12***	0.47	57.0	37.0	1.2	1100	517	16.5	24	13.0

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