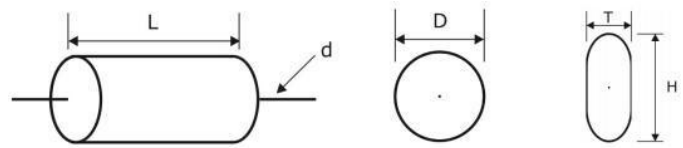


## IGBT 用突波缓冲吸收轴向电容器 Snubber Capacitors Used for IGBT( Axial-type)

### ●外形图 Outline Drawing



### ● 应用

- 适用于IGBT缓冲吸收保护。

### ● Applications

- Suitable for applications in snubber for IGBT.

### ● 产品描述

- 引用标准 GB/T 17702 idt IEC 61071,
- GB/T 2693 idt IEC 60384-1;
- 双面金属化薄膜, 聚丙烯介质无感式卷绕;
- 具有轴向引出端子, 方便电路连接;
- 具有低的 ESR 和高的 dv/dt 特性;
- 可承受很大的峰-峰值电流 $I_{pp}$ 和高频有效值电流  $I_{rms}$ ;
- 可根据客户要求, 提供镀锡铜线、铜焊片等多种引出形式。

### ● Description of products

- Reference standard: GB/T 17702 idt IEC 61071,
- GB/T 2693 idt IEC 60384-1.
- Double sided metallized film, polypropylene dielectric, non-inductive winding.
- Having axial terminals, expediently connected with the circuit.
- Having low ESR and high dv/dt.
- Withstanding very high peak to peak value of current  $I_{pp}$  and high frequency effective value of current  $I_{rms}$ .
- Accordance with the customer requirements ,tinned copper wire, copper tab, and various of style of terminals are available.

### ● 工艺特点

- 采用双面金属化膜做电极, 以提高 dv/dt 特性;
- 聚酯胶带包裹, 两端阻燃环氧树脂封装。

### ● Technology Features

- To use double sided metallized film as electrode to enhance property of dv/dt.
- Polyester tape coated, flame-retardant epoxy resin end filled.

### ● 性能指标 Specifications

温度范围 Temperature Range	-40~+85/105°C (0hs)
电容量范围 Capacitance Range	0.01~4.7μ F
电容量偏差 Capacitance Tolerance ΔC/C	J: ±5% K: ±10%
额定工作电压 Rated Voltage $U_n$	850~2500Vdc
端子间电压 Voltage Proof Between Terminals $U_{TT}$	1.6 $U_n$ ( 60s )
绝缘电阻 Insulation Resistance	≥10000MΩ ·μ F

产品编码说明 Part number system

- 16位产品代码如下:

The 16 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
C	X	0													

第1~3位 Digit 1 to 3

型号代码 Series code

CX0

第4~6位 Digit 4 to 6

额定电压 Rated voltage

举例：163=10<sup>1</sup>×63V=630V

第7位 Digit 7

交流/直流电压 AC/DC

A=AC D=DC

第8~10位 Digit 8 to 10

标称容量 Rated capacitance value

举例：310=10<sup>3</sup>×10pF=0.01μF

第11位 Digit 11

容量偏差 Capacitance tolerance

J=±5%, K=±10%

第12~16位 Digit 12 to 16

内部识别码 Internal use

**● 技术参数 Technical data (mm)**

Un (Vdc)	Us (V)	C <sub>N</sub> μF	Axial		Axial flat			ESR mΩ	dv/dt V/μs	I <sub>pp</sub> (A)	I <sub>rms</sub> (A)	Part Number
			L	D	L	H	T					
			(mm)		(mm)							
850	1200	0.1	27	12	27	13.5	9.5	11	1000	100	4	CX0185D410*1****
	1200	0.1	32	10	32	12	7	12	700	70	4	CX0185D410*2****
	1200	0.15	27	14	27	15.5	11.5	8	1000	150	5.5	CX0185D415*1****
	1200	0.15	32	12	32	14	9	9	700	105	5.5	CX0185D415*2****
	1200	0.22	27	16.5	27	19.5	13	6.5	1000	220	6.5	CX0185D422*1****
	1200	0.22	32	14.5	32	16.5	11.5	7	700	154	6.5	CX0185D422*2****
	1200	0.22	45	11	45	13	8	8	400	88	6.5	CX0185D422*3****
	1200	0.33	32	17	32	20	13.5	5	700	231	8	CX0185D433*1****
	1200	0.33	45	13	45	15	10	7	400	132	7.5	CX0185D433*2****
	1200	0.47	32	20	32	23	16.5	4	700	329	9	CX0185D447*1****
	1200	0.47	45	15.5	45	18.5	12	5	400	188	9	CX0185D447*2****
	1200	0.68	32	24	32	28	20	4	700	476	9	CX0185D468*1****
	1200	0.68	45	18	45	21.5	15	5	400	272	9	CX0185D468*2****
	1200	1	45	22	45	26	16	3.5	400	400	12	CX0185D510*1****
	1200	1.5	45	27	45	31	21	3	400	600	12	CX0185D515*1****
	1200	2	45	31	45	35	25	2.8	400	800	12	CX0185D520*1****
	1200	2	57	26	57	30	20	3.5	275	550	12	CX0185D520*2****
	1200	2.5	45	34	45			2.6	400	1000	12	CX0185D525*1****
	1200	2.5	57	29	57			2.8	275	688	12	CX0185D525*2****
	1200	3	57	32	57			2.6	275	825	12	CX0185D530*1****
1200	4	57	36	57			2.6	275	1100	12	CX0185D540*1****	
1200	4.7	57	39	57			2.4	275	1293	12	CX0185D547*1****	

Un (Vdc)	Us (V)	Cn μF	Axial		Axial flat			ESR mΩ	dv/dt V/μs	Ipp (A)	Irms (A)	Part Number
			L	D	L	H	T					
			(mm)		(mm)							
1200	1600	0.047	27	10	27	11.5	7.5	17	1300	61	3	C2X212D347*1****
	1600	0.047	32	9	32	10.5	6.5	19	1100	51.7	3	C2X212D347*2****
	1600	0.068	27	12	27	13.5	9.5	13	1300	88.4	3.5	C2X212D368*1****
	1600	0.068	32	11	32	12.5	8.5	15	1100	74.8	3.5	C2X212D368*2****
	1600	0.1	27	14	27	15.5	11.5	10	1300	130	5	C2X212D410*1****
	1600	0.1	32	13	32	14.5	10.5	11	1100	110	5	C2X212D410*2****
	1600	0.1	45	10.5	45	12.5	7.5	14	650	65	5	C2X212D410*3****
	1600	0.15	32	15	32	18	11.5	10	1100	165	6	C2X212D415*1****
	1600	0.15	45	12	45	14	9	8	650	97.5	6	C2X212D415*2****
	1600	0.22	32	18	32	21.5	15	6	1100	242	9	C2X212D422*1****
	1600	0.22	45	14	45	17.5	11	8	650	143	9	C2X212D422*2****
	1600	0.33	32	22	32	25.5	19	5	1100	363	9	C2X212D433*1****
	1600	0.33	45	17	45	20.5	14	6	650	214.5	9	C2X212D433*2****
	1600	0.47	45	20	45	23.5	17	5	650	305.5	9	C2X212D447*1****
	1600	0.68	45	24	45	28	18	4	650	442	12	C2X212D468*1****
	1600	1	45	29	45	33	23	3.5	650	650	12	C2X212D510*1****
	1600	1	57	24	57	28	18	4	350	350	12	C2X212D510*2****
	1600	2	45	39	45			2.8	650	1300	12	C2X212D520*1****
1600	2	57	33	57			3	350	700	12	C2X212D520*2****	
1600	3	57	40	57			2.5	350	1050	12	C2X212D530*1****	
1700	2220	0.033	27	12	27	14	9	22	2000	66	3	C2X217D333*1****
	2220	0.047	27	13.5	27	15.5	10.5	16.5	2000	94	3.5	C2X217D347*1****
	2220	0.068	27	16	27	19.5	13	12.4	2000	136	4	C2X217D368*1****
	2220	0.068	32	13.5	32	15.5	10.5	13.8	1400	95.2	4	C2X217D368*2****
	2220	0.1	32	16	32	19.5	13	9.6	1400	140	5.5	C2X217D410*1****
	2220	0.15	32	19	32	22.5	16	7.2	1400	210	7	C2X217D415*1****
	2220	0.22	32	22.5	32	25.5	19	5.3	1400	308	9	C2X217D422*1****
	2220	0.22	45	18	45	22	12	7	800	176	9	C2X217D422*2****
	2220	0.33	45	22	45	26	16	5.3	800	264	9	C2X217D433*1****
	2220	0.47	45	25	45	31	21	4.3	800	376	11	C2X217D447*1****
	2220	0.68	45	30	45	34	24	3.7	800	544	12	C2X217D468*1****
	2220	1	45	36	45			3.2	800	800	12	C2X217D510*1****
	2220	1	57	30	57	34	24	4.2	500	500	12	C2X217D510*2****
	2220	1.5	57	37	57			3.2	500	750	12	C2X217D515*1****
2220	2	57	42	57			2.8	500	1000	12	C2X217D520*1****	

Un (Vdc)	Us (V)	C <sub>N</sub> μF	Axial		Axial flat			ESR mΩ	dv/dt V/μs	I <sub>pp</sub> (A)	I <sub>rms</sub> (A)	Part Number
			L	D	L	H	T					
			(mm)		(mm)							
2000	2400	0.015	27	9	27	11	6	37.5	2150	32.2	2	C2X220D315*1****
	2400	0.022	27	10.5	27	12.5	7.5	27.5	2150	47.3	2.5	C2X220D322*1****
	2400	0.022	32	10	32	12	7	38.5	1750	38.5	2.5	C2X220D322*2****
	2400	0.033	27	12.5	27	14.5	9.5	20.7	2150	70.9	3.5	C2X220D333*1****
	2400	0.033	32	11.5	32	13	8	23.8	1750	58	3.5	C2X220D333*2****
	2400	0.047	27	14.5	27	16.5	11.5	15	2150	101	4.5	C2X220D347*1****
	2400	0.047	32	13	32	15	10	16.8	1750	82	4.5	C2X220D347*2****
	2400	0.047	45	10.5	45	12	7	21	1000	47	4	C2X220D347*3****
	2400	0.068	32	15.5	32	18.5	12	11.8	1750	119	5.5	C2X220D368*1****
	2400	0.068	45	12	45	14	9	16.3	1000	68	5.5	C2X220D368*2****
	2400	0.1	32	18	32	21.5	15	8.4	1750	175	7.5	C2X220D410*1****
	2400	0.1	45	14.5	45	16.5	11.5	12.4	1000	100	7	C2X220D410*2****
	2400	0.15	32	22	32	25.5	19	6.6	1750	262	9	C2X220D415*1****
	2400	0.15	45	17	45	20.5	14	8.3	1000	150	9	C2X220D415*2****
	2400	0.22	45	21	45	25	15	6	1000	220	9	C2X220D422*1****
	2400	0.33	45	25	45	29	19	4.7	1000	330	12	C2X220D433*1****
	2400	0.47	45	30	45	34	24	3.9	1000	470	12	C2X220D447*1****
	2400	0.47	57	25	57	29	19	6	650	305.5	12	C2X220D447*2****
	2400	0.68	57	30	57	34	24	4.5	650	442	12	C2X220D468*1****
	2400	1	57	36	57			3.7	650	650	12	C2X220D510*1****
2400	1.2	57	38.5	57			3.4	650	781.2	12	C2X220D512*1****	
2500	3000	0.01	27	9.5	27	11.5	6.5	52	2650	26.5	1.5	C2X225D310*1****
	3000	0.022	27	13.5	27	15.5	10.5	27	2650	58.3	3	C2X225D322*1****
	3000	0.022	32	11.5	32	13.5	8.5	31	2150	47.3	2.5	C2X225D322*2****
	3000	0.033	27	15	27	18.5	12	20	2650	87.4	4	C2X225D333*1****
	3000	0.033	32	13.5	32	15.5	10.5	23	2150	71	4	C2X225D333*2****
	3000	0.047	32	16	32	19.5	13	16.5	2150	101	5	C2X225D347*1****
	3000	0.068	32	18.5	32	21.5	15	11.5	2150	146	6.5	C2X225D368*1****
	3000	0.1	32	22.5	32	26	18	8	2150	215	8.5	C2X225D410*1****
	3000	0.1	45	18	45	22	12	12	1350	135	8.5	C2X225D410*2****
	3000	0.22	45	25.5	45	29	19.5	5.9	1350	297	11	C2X225D422*1****
	3000	0.33	45	31	45	35	25	4.5	1350	423	12	C2X225D433*1****
	3000	0.33	57	26	57	30	20	6	750	247.5	12	C2X225D433*2****
	3000	0.47	57	30	57	34	24	4.9	750	352.5	12	C2X225D447*1****
	3000	0.56	57	32.5	57			4.5	750	420	12	C2X225D456*1****
	3000	0.68	57	36	57			4.1	750	510	12	C2X225D468*1****
	3000	0.82	57	39	57			3.8	750	615	12	C2X225D482*1****