

CBB20T series / Metallized polypropylene film capacitor (Axial type)

General Technical Characteristics 一般特性

Metallized polypropylene film, non-inductive type, axial
 金属化聚丙烯膜, 无感卷绕结构, 轴向
 Excellent self-healing property
 自愈性能优异
 Wrapped with polyester adhesive tape and ends filled
 with flame retardant epoxy resin
 外包聚酯胶带纸, 两端灌注阻燃性环氧树脂

Typical Applications 典型应用

Temperature compensation circuits
 温度补偿电路
 Timing, oscillator circuits
 定时, 振荡电路
 Power factor correction and coupling capacitor in SMPS
 applications
 功率因素校正, 开关电源耦合应用

Electrical Characteristics 电气特性

Reference Standard 引用标准: GB/T 10190 (IEC60384-16)
 Climatic Category 气候类别: 40/85/21
 Rated Temperature 额定温度: 85°C
 Operating Temperature Range: -40°C ~ 105°C
 工作温度范围: (+85°C to +105°C: decreasing factor 1.25% per °C for U_R)
 Rated Voltage 额定电压: 100V/160V, 250V, 400V, 630V, 1000V, 1250V
 Capacitance Range 电容范围: 0.0010μF ~ 15.0μF
 Capacitance Tolerance 电容偏差: ±5% (J), ±10% (K), ±20% (M),
 ≤10*10⁻⁴ Measured at 1KHz and 20°C.
 Dissipation Factor 损耗角正切:
 Test Voltage 耐电压: 1.6 U_R for 5 sec.
 Insulation Resistance 绝缘电阻: ≥100 000MΩ, for C_N ≤ 0.33μF
 ≥15 000s, for C_N > 0.33μF Measured at 20°C, 100V and 1 min.

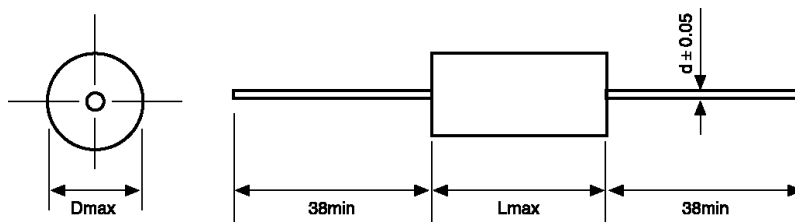
Maximum Pulse Rise Time(dV/dt) 最大脉冲爬升速率:

U_R (V)	dV/dt (V/μs)						
	L=12	L=14.5	L=20	L=27.5	L=33	L=41.5	L=56.5
100/160	150	110	80	60	50	35	20
250	300	220	150	110	90	60	30
400	460	330	250	180	120	80	45
630	600	440	300	220	150	100	60
1000	800	550	400	300	200	150	80
1250	1000	750	580	400	300	200	100

If the working voltage (U) is lower than the rated voltage (U_R), the capacitor can be worked at a higher dV/dt. In this case, the maximum allowed dV/dt is obtain by multiplying the left value with U_R/U .

若实际工作电压 U 比额定电压 U_R 低, 电容器可工作在更高的 dV/dt 场合, 这样 dV/dt 允许值应为左表值乘以 U_R/U 。

Outline Drawing 外形图



Part Number System 产品编码说明

K6T	2A	334	K	I	L	0	40	***
型号代码	额定电压	标称容量	容量偏差	产品长度 L	引线加工/包装代码	引线类型	引线长度	内部编码
Series Code:	Voltage:	Capacitance:	Cap. Tol.:	Length:	Lead form and packaging code:	Lead type:	Lead length:	Internal code
K6T:	2A=100V	104: 0.1μF	J: ± 5%, K: ± 10% M: ± 20%	G=12.0mm H=14.5mm I=20.0mm L=27.5mm N=33.0mm Q=42.0mm T=56.0mm	L=straight lead	0=none	05=5mm 40=40mm	
CBB20T Series	2C=160V 2E=250V 2G=400V 2J=630V 3A=1000V 3B=1250V	105: 1.0μF						

CBB20T series / Metallized polypropylene film capacitor (Axial type)

Electrical Specification & Part Numbers Reference 规格型号参考 (mm)

Cap (μF)	100VDC (60VAC) / 160VDC (90VAC)			Part Number
	D	L	d	
0.022	5.0	12.0	0.6	K6T2A223*****
0.027	5.0	12.0	0.6	K6T2A273*****
0.033	5.0	12.0	0.6	K6T2A333*****
0.039	5.0	12.0	0.6	K6T2A393*****
0.047	5.0	12.0	0.6	K6T2A473*****
0.056	5.0	12.0	0.6	K6T2A563*****
0.068	5.5	12.0	0.6	K6T2A683*****
0.082	5.0	14.5	0.6	K6T2A823*****
0.10	5.5	14.5	0.6	K6T2A104*****
0.12	6.0	14.5	0.6	K6T2A124*****
0.15	6.5	14.5	0.6	K6T2A154*****
0.18	7.0	14.5	0.8	K6T2A184*****
0.22	7.5	14.5	0.8	K6T2A224*****
0.27	8.5	14.5	0.8	K6T2A274*****
0.33	7.0	20.0	0.8	K6T2A334*****
0.39	7.5	20.0	0.8	K6T2A394*****
0.47	8.0	20.0	0.8	K6T2A474*****
0.56	9.0	20.0	0.8	K6T2A564*****
0.68	8.0	27.5	0.8	K6T2A684*****
0.82	8.5	27.5	0.8	K6T2A824*****
1.0	9.5	27.5	0.8	K6T2A105*****
1.2	10.0	27.5	0.8	K6T2A125*****
1.5	11.5	27.5	0.8	K6T2A155*****
1.8	12.0	27.5	0.8	K6T2A185*****
2.2	12.0	33.0	0.8	K6T2A225*****
2.7	13.0	33.0	0.8	K6T2A275*****
3.3	14.0	33.0	0.8	K6T2A335*****
3.9	15.0	33.0	0.8	K6T2A395*****
4.7	16.5	33.0	1.0	K6T2A475*****
5.6	17.5	33.0	1.0	K6T2A565*****
6.8	17.5	41.5	1.0	K6T2A685*****
8.2	19.0	41.5	1.0	K6T2A825*****
10.0	20.5	41.5	1.0	K6T2A106*****
12.0	19.0	56.5	1.0	K6T2A126*****
15.0	21.0	56.5	1.0	K6T2A156*****

p (μF)	250VDC (160VAC)			Part Number
	D	L	d	
0.010	5.0	12.0	0.6	K6T2E103*****
0.012	5.0	12.0	0.6	K6T2E123*****
0.015	5.0	12.0	0.6	K6T2E153*****
0.018	5.0	12.0	0.6	K6T2E183*****
0.022	5.0	12.0	0.6	K6T2E223*****
0.027	5.0	12.0	0.6	K6T2E273*****
0.033	5.5	12.0	0.6	K6T2E333*****
0.039	5.0	14.5	0.6	K6T2E393*****
0.047	5.5	14.5	0.6	K6T2E473*****
0.056	5.5	14.5	0.6	K6T2E563*****
0.068	6.0	14.5	0.6	K6T2E683*****
0.082	6.5	14.5	0.6	K6T2E823*****
0.10	7.0	14.5	0.8	K6T2E104*****
0.12	7.5	14.5	0.8	K6T2E124*****
0.15	8.0	14.5	0.8	K6T2E154*****
0.18	8.5	14.5	0.8	K6T2E184*****
0.22	7.5	20.0	0.8	K6T2E224*****
0.27	8.0	20.0	0.8	K6T2E274*****
0.33	9.0	20.0	0.8	K6T2E334*****
0.39	9.5	20.0	0.8	K6T2E394*****
0.47	8.5	27.5	0.8	K6T2E474*****
0.56	9.0	27.5	0.8	K6T2E564*****
0.68	10.0	27.5	0.8	K6T2E684*****
0.82	10.5	27.5	0.8	K6T2E824*****
1.0	12.0	27.5	0.8	K6T2E105*****
1.2	12.5	27.5	0.8	K6T2E125*****
1.5	12.5	33.0	0.8	K6T2E155*****
1.8	13.5	33.0	0.8	K6T2E185*****
2.2	14.5	33.0	0.8	K6T2E225*****
2.7	16.0	33.0	1.0	K6T2E275*****
3.3	17.5	33.0	1.0	K6T2E335*****
3.9	18.5	33.0	1.0	K6T2E395*****
4.7	18.0	41.5	1.0	K6T2E475*****
5.6	19.5	41.5	1.0	K6T2E565*****
6.8	21.5	41.5	1.0	K6T2E685*****
8.2	23.0	41.5	1.0	K6T2E825*****
10.0	21.5	56.5	1.0	K6T2E106*****
12.0	23.5	56.5	1.0	K6T2E126*****
15.0	25.5	56.5	1.0	K6T2E156*****

Cap (μF)	400VDC (200VAC)			Part Number
	D	L	d	
0.0068	5.0	12.0	0.6	K6T2G682*****
0.0082	5.0	12.0	0.6	K6T2G822*****
0.010	5.0	12.0	0.6	K6T2G103*****
0.012	5.0	12.0	0.6	K6T2G123*****
0.015	5.0	12.0	0.6	K6T2G153*****
0.018	5.5	12.0	0.6	K6T2G183*****
0.022	5.5	12.0	0.6	K6T2G223*****
0.027	5.0	14.5	0.6	K6T2G273*****
0.033	5.5	14.5	0.6	K6T2G333*****
0.039	6.0	14.5	0.6	K6T2G393*****
0.047	6.5	14.5	0.6	K6T2G473*****
0.056	6.5	14.5	0.6	K6T2G563*****
0.068	7.0	14.5	0.8	K6T2G683*****
0.082	7.5	14.5	0.8	K6T2G823*****
0.10	7.0	20.0	0.8	K6T2G104*****
0.12	7.5	20.0	0.8	K6T2G124*****
0.15	8.0	20.0	0.8	K6T2G154*****
0.18	8.5	20.0	0.8	K6T2G184*****
0.22	9.0	20.0	0.8	K6T2G224*****
0.27	10.0	20.0	0.8	K6T2G274*****
0.33	9.0	27.5	0.8	K6T2G334*****
0.39	9.5	27.5	0.8	K6T2G394*****
0.47	10.0	27.5	0.8	K6T2G474*****
0.56	10.5	27.5	0.8	K6T2G564*****
0.68	12.0	27.5	0.8	K6T2G684*****
0.82	13.0	27.5	0.8	K6T2G824*****
1.0	12.5	33.0	0.8	K6T2G105*****
1.2	13.5	33.0	0.8	K6T2G125*****
1.5	15.0	33.0	0.8	K6T2G155*****
1.8	16.0	33.0	1.0	K6T2G185*****
2.2	17.5	33.0	1.0	K6T2G225*****
2.7	19.0	33.0	1.0	K6T2G275*****
3.3	18.5	41.5	1.0	K6T2G335*****
3.9	20.0	41.5	1.0	K6T2G395*****
4.7	21.5	41.5	1.0	K6T2G475*****
5.6	23.5	41.5	1.0	K6T2G565*****
6.8	21.5	56.5	1.0	K6T2G685*****
8.2	23.5	56.5	1.0	K6T2G825*****
10.0	25.5	56.5	1.0	K6T2G106*****

备注: 1. "*****" = Capacitance tolerance code, Pitch, Lead form and packaging code, Lead type, Lead length, Internal code.
 "*****" 表示容量偏差, 引线脚距, 引线加工和包装代码, 引线类型, 引线长度, 内部编码。

2. Customization for special specification and requirement is available.

CBB20T series / Metallized polypropylene film capacitor (Axial type)

Electrical Specification & Part Numbers Reference 规格型号参考 (mm)

Cap (μF)	630VDC (220VAC)			Part Number	Cap (μF)	1000VDC (350VAC)			Part Number	Cap (μF)	1250VDC (400VAC)			Part Number
	D	L	d			D	L	d			D	L	d	
0.0010	5.0	12.0	0.6	K6T2J102*****	0.0010	5.0	12.0	0.6	K6T3A102*****	0.0010	5.0	12.0	0.6	K6T3B102*****
0.0012	5.0	12.0	0.6	K6T2J122*****	0.0012	5.0	12.0	0.6	K6T3A122*****	0.0012	5.5	12.0	0.6	K6T3B122*****
0.0015	5.0	12.0	0.6	K6T2J152*****	0.0015	5.0	12.0	0.6	K6T3A152*****	0.0015	5.5	12.0	0.6	K6T3B152*****
0.0018	5.0	12.0	0.6	K6T2J182*****	0.0018	5.5	12.0	0.6	K6T3A182*****	0.0018	6.0	12.0	0.6	K6T3B182*****
0.0022	5.0	12.0	0.6	K6T2J222*****	0.0022	6.0	12.0	0.6	K6T3A222*****	0.0022	6.5	12.0	0.6	K6T3B222*****
0.0027	5.0	12.0	0.6	K6T2J272*****	0.0027	6.0	12.0	0.6	K6T3A272*****	0.0027	5.5	14.5	0.6	K6T3B272*****
0.0033	5.0	12.0	0.6	K6T2J332*****	0.0033	6.5	12.0	0.6	K6T3A332*****	0.0033	6.0	14.5	0.6	K6T3B332*****
0.0039	5.0	12.0	0.6	K6T2J392*****	0.0039	5.5	14.5	0.6	K6T3A392*****	0.0039	6.0	14.5	0.6	K6T3B392*****
0.0047	5.0	12.0	0.6	K6T2J472*****	0.0047	5.5	14.5	0.6	K6T3A472*****	0.0047	6.5	14.5	0.6	K6T3B472*****
0.0056	5.0	12.0	0.6	K6T2J562*****	0.0056	6.5	14.5	0.6	K6T3A562*****	0.0056	7.0	14.5	0.8	K6T3B562*****
0.0068	5.5	12.0	0.6	K6T2J682*****	0.0068	6.5	14.5	0.6	K6T3A682*****	0.0068	7.5	14.5	0.8	K6T3B682*****
0.0082	5.0	14.5	0.6	K6T2J822*****	0.0082	7.0	14.5	0.8	K6T3A822*****	0.0082	8.0	14.5	0.8	K6T3B822*****
0.010	5.5	14.5	0.6	K6T2J103*****	0.010	7.5	14.5	0.8	K6T3A103*****	0.010	8.5	14.5	0.8	K6T3B103*****
0.012	5.5	14.5	0.6	K6T2J123*****	0.012	8.0	14.5	0.8	K6T3A123*****	0.012	7.0	20.0	0.8	K6T3B123*****
0.015	6.0	14.5	0.6	K6T2J153*****	0.015	8.5	14.5	0.8	K6T3A153*****	0.015	7.5	20.0	0.8	K6T3B153*****
0.018	6.5	14.5	0.6	K6T2J183*****	0.018	7.5	20.0	0.8	K6T3A183*****	0.018	8.0	20.0	0.8	K6T3B183*****
0.022	7.0	14.5	0.8	K6T2J223*****	0.022	8.0	20.0	0.8	K6T3A223*****	0.022	8.5	20.0	0.8	K6T3B223*****
0.027	7.5	14.5	0.8	K6T2J273*****	0.027	8.5	20.0	0.8	K6T3A273*****	0.027	9.5	20.0	0.8	K6T3B273*****
0.033	7.0	20.0	0.8	K6T2J333*****	0.033	9.0	20.0	0.8	K6T3A333*****	0.033	10.5	20.0	0.8	K6T3B333*****
0.039	7.5	20.0	0.8	K6T2J393*****	0.039	10.0	20.0	0.8	K6T3A393*****	0.039	9.0	27.5	0.8	K6T3B393*****
0.047	8.0	20.0	0.8	K6T2J473*****	0.047	10.5	20.0	0.8	K6T3A473*****	0.047	9.5	27.5	0.8	K6T3B473*****
0.056	8.5	20.0	0.8	K6T2J563*****	0.056	9.0	27.5	0.8	K6T3A563*****	0.056	10.0	27.5	0.8	K6T3B563*****
0.068	9.0	20.0	0.8	K6T2J683*****	0.068	9.5	27.5	0.8	K6T3A683*****	0.068	11.0	27.5	0.8	K6T3B683*****
0.082	9.5	20.0	0.8	K6T2J823*****	0.082	10.5	27.5	0.8	K6T3A823*****	0.082	12.0	27.5	0.8	K6T3B823*****
0.10	8.5	27.5	0.8	K6T2J104*****	0.10	11.5	27.5	0.8	K6T3A104*****	0.10	13.0	27.5	0.8	K6T3B104*****
0.12	9.0	27.5	0.8	K6T2J124*****	0.12	12.0	27.5	0.8	K6T3A124*****	0.12	12.5	33.0	0.8	K6T3B124*****
0.15	10.0	27.5	0.8	K6T2J154*****	0.15	12.0	33.0	0.8	K6T3A154*****	0.15	13.5	33.0	0.8	K6T3B154*****
0.18	10.5	27.5	0.8	K6T2J184*****	0.18	13.0	33.0	0.8	K6T3A184*****	0.18	14.5	33.0	0.8	K6T3B184*****
0.22	12.0	27.5	0.8	K6T2J224*****	0.22	14.0	33.0	0.8	K6T3A224*****	0.22	16.0	33.0	1.0	K6T3B224*****
0.27	13.0	27.5	0.8	K6T2J274*****	0.27	15.0	33.0	0.8	K6T3A274*****	0.27	17.0	33.0	1.0	K6T3B274*****
0.33	12.5	33.0	0.8	K6T2J334*****	0.33	16.5	33.0	1.0	K6T3A334*****	0.33	17.0	41.5	1.0	K6T3B334*****
0.39	13.5	33.0	0.8	K6T2J394*****	0.39	18.0	33.0	1.0	K6T3A394*****	0.39	18.0	41.5	1.0	K6T3B394*****
0.47	14.5	33.0	0.8	K6T2J474*****	0.47	17.5	41.5	1.0	K6T3A474*****	0.47	19.5	41.5	1.0	K6T3B474*****
0.56	15.5	33.0	0.8	K6T2J564*****	0.56	19.0	41.5	1.0	K6T3A564*****	0.56	21.0	41.5	1.0	K6T3B564*****
0.68	17.0	33.0	1.0	K6T2J684*****	0.68	20.5	41.5	1.0	K6T3A684*****	0.68	20.0	56.5	1.0	K6T3B684*****
0.82	18.0	33.0	1.0	K6T2J824*****	0.82	22.0	41.5	1.0	K6T3A824*****	0.82	21.5	56.5	1.0	K6T3B824*****
1.0	17.5	41.5	1.0	K6T2J105*****	1.0	20.5	56.5	1.0	K6T3A105*****	1.0	23.0	56.5	1.0	K6T3B105*****
1.2	19.0	41.5	1.0	K6T2J125*****	1.2	22.0	56.5	1.0	K6T3A125*****	1.2	25.0	56.5	1.0	K6T3B125*****
1.5	21.0	41.5	1.0	K6T2J155*****	1.5	24.5	56.5	1.0	K6T3A155*****	1.5	27.5	56.5	1.0	K6T3B155*****
1.8	22.5	41.5	1.0	K6T2J185*****										
2.2	24.5	41.5	1.0	K6T2J225*****										
2.7	23.0	56.5	1.0	K6T2J275*****										
3.3	25.0	56.5	1.0	K6T2J335*****										

备注：1. "*****" = Capacitance tolerance code, Pitch, Lead form and packaging code, Lead type, Lead length, Internal code.

"*****" 表示容量偏差，引线脚距，引线加工和包装代码，引线类型，引线长度，内部编码。

2. Customization for special specification and requirement is available.