

## CL20T series / Metallized polyester film capacitor (Axial type)

### General Technical Characteristics 一般特性

Metallized polyester film, non-inductive wound construction  
 金属化聚酯膜，无感卷绕结构  
 Small size, light weight, excellent self-healing properly  
 体积小，重量轻，自愈性能优异  
 Wrapped with polyester adhesive tape and ends filled  
 外包装聚酯胶带纸，两端灌注环氧树脂

### Typical Applications 典型应用

Suitable for blocking, by-pass, coupling and decoupling  
 隔直、旁路和耦合（去耦）

### Electrical Characteristics 电气特性

Reference Standard 引用标准: IEC60384-2  
 Climatic Category 气候类别: 55/105/21  
 Rated Temperature 额定温度: 85°C  
 Operating Temperature Range: -55°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: 50VDC, 63VDC, 100VDC, 250VDC, 400VDC, 630VDC, 1000VDC,  
 Capacitance Range 电容量范围: 0.010 $\mu$ F ~ 10.0 $\mu$ F  
 Capacitance Tolerance 电容量偏差:  $\pm 5\%$  (J),  $\pm 10\%$  (K),  $\pm 20\%$  (M)  
 Dissipation Factor 损耗角正切:  $\leq 1.0\%$  Measured at 1KHz and 20°C.  
 Test Voltage 耐电压:  $1.6U_R$  for 5 sec.  
 Insulation Resistance 绝缘电阻:  
 $U_R \leq 100V$ :  $\geq 3750M\Omega$ , for  $C_N \leq 0.33\mu F$   
 $\geq 1250s$ , for  $C_N > 0.33\mu F$  Measured at 20°C, 10V and 1 min.  
 $U_R > 100V$ :  $\geq 30000M\Omega$ , for  $C_N \leq 0.33\mu F$   
 $\geq 10000s$ , for  $C_N > 0.33\mu F$  Measured at 20°C, 100V and 1 min.

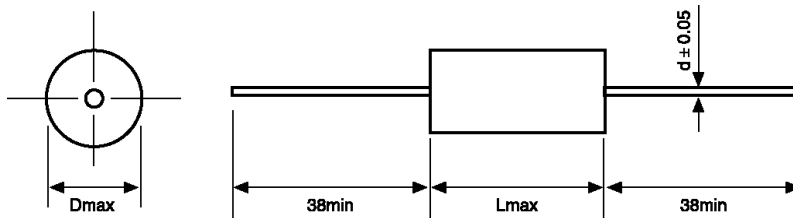
Maximum Pulse Rise Time(dV/dt) 最大脉冲爬升速率:

$U_R$ (V)	dV/dt [V/ $\mu$ s]				
	P=12.0	P=14.5	P=20.0	P=27.5	P=33.0
50/63	6	6	2	1.5	1
100	9	9	3	2	1
250	20	20	8	5	2.5
400	30	30	10	7	4
630	40	40	15	10	6
1000	50	50	25	12	8

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



## CL20T series / Metallized polyester film capacitor (Axial type)

### Part Number System 产品编码说明

K4T	2A	334	K	H	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	Lead type:	Lead length:	Internal
K4T:	1H=50V	104: 0.1μF	J: ± 5%	G=12.0mm	packaging code:	0=none	05=5mm	code
CL20T Series	1J=63V	105: 1.0μF	K: ± 10%	H=14.5mm	L=straight lead		40=40mm	
	2A=100V		M: ± 20%	I=20.0mm				
	2E=250V			L=27.5mm				
	2G=400V			N=33.0mm				
	2J=630V							
	3A=1000V							

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

Cap (μF)	50VDC (30VAC) / 63VDC (40VAC)			Part Number	Cap (μF)	100VDC (63VAC)			Part Number	Cap (μF)	250VDC (160VAC)			Part Number
	D	L	d			D	L	d			D	L	d	
0.33	5.2	12.0	0.6	K4T1J334*****	0.068	5.2	12.0	0.6	K4T2A683*****	0.047	5.2	12.0	0.6	K4T2E473*****
0.39	5.5	12.0	0.6	K4T1J394*****	0.082	5.2	12.0	0.6	K4T2A823*****	0.056	5.2	12.0	0.6	K4T2E563*****
0.47	5.5	14.5	0.6	K4T1J474*****	0.10	5.2	12.0	0.6	K4T2A104*****	0.068	5.2	12.0	0.6	K4T2E683*****
0.56	6.0	14.5	0.6	K4T1J564*****	0.12	5.2	12.0	0.6	K4T2A124*****	0.082	5.2	12.0	0.6	K4T2E823*****
0.68	6.0	14.5	0.6	K4T1J684*****	0.15	5.2	12.0	0.6	K4T2A154*****	0.10	5.5	14.5	0.6	K4T2E104*****
0.82	6.5	14.5	0.6	K4T1J824*****	0.18	5.2	12.0	0.6	K4T2A184*****	0.12	5.5	14.5	0.6	K4T2E124*****
1.0	7.0	14.5	0.8	K4T1J105*****	0.22	5.2	12.0	0.6	K4T2A224*****	0.15	5.5	14.5	0.6	K4T2E154*****
1.2	7.0	14.5	0.8	K4T1J125*****	0.27	5.2	12.0	0.6	K4T2A274*****	0.18	5.5	14.5	0.6	K4T2E184*****
1.5	6.7	20.0	0.8	K4T1J155*****	0.33	6.0	14.5	0.6	K4T2A334*****	0.22	6.0	14.5	0.6	K4T2E224*****
1.8	7.0	20.0	0.8	K4T1J185*****	0.39	6.0	14.5	0.6	K4T2A394*****	0.27	6.5	14.5	0.6	K4T2E274*****
2.2	7.5	20.0	0.8	K4T1J225*****	0.47	6.0	14.5	0.6	K4T2A474*****	0.33	6.5	20.0	0.6	K4T2E334*****
2.7	8.5	20.0	0.8	K4T1J275*****	0.56	6.0	14.5	0.6	K4T2A564*****	0.39	6.5	20.0	0.6	K4T2E394*****
3.3	9.0	20.0	0.8	K4T1J335*****	0.68	6.8	14.5	0.8	K4T2A684*****	0.47	7.0	20.0	0.8	K4T2E474*****
3.9	9.5	20.0	0.8	K4T1J395*****	0.82	7.0	14.5	0.8	K4T2A824*****	0.56	7.5	20.0	0.8	K4T2E564*****
4.7	8.5	27.5	0.8	K4T1J475*****	1.0	7.7	20.0	0.8	K4T2A105*****	0.68	8.0	20.0	0.8	K4T2E684*****
5.6	9.0	27.5	0.8	K4T1J565*****	1.2	7.0	20.0	0.8	K4T2A125*****	0.82	8.5	20.0	0.8	K4T2E824*****
6.8	10.0	27.5	0.8	K4T1J685*****	1.5	8.0	20.0	0.8	K4T2A155*****	1.0	9.0	20.0	0.8	K4T2E105*****
8.2	10.5	27.5	0.8	K4T1J825*****	1.8	8.5	20.0	0.8	K4T2A185*****	1.2	8.5	27.5	0.8	K4T2E125*****
10.0	11.0	33.0	0.8	K4T1J106*****	2.2	9.0	20.0	0.8	K4T2A225*****	1.5	9.0	27.5	0.8	K4T2E155*****
					2.7	9.5	20.0	0.8	K4T2A275*****	1.8	9.5	27.5	0.8	K4T2E185*****
					3.3	9.5	27.5	0.8	K4T2A335*****	2.2	11.0	33.0	0.8	K4T2E225*****
					3.9	9.5	27.5	0.8	K4T2A395*****	2.7	12.0	33.0	0.8	K4T2E275*****
					4.7	10.0	33.0	0.8	K4T2A475*****	3.3	13.0	33.0	0.8	K4T2E335*****
					5.6	10.5	33.0	0.8	K4T2A565*****	3.9	14.5	33.0	0.8	K4T2E395*****
					6.8	11.5	33.0	0.8	K4T2A685*****	4.7	15.5	33.0	0.8	K4T2E475*****
					8.2	12.5	33.0	0.8	K4T2A825*****	5.6	16.5	33.0	1.0	K4T2E565*****
					10.0	13.5	33.0	0.8	K4T2A106*****	6.8	18.5	33.0	1.0	K4T2E685*****
										8.2	20.0	33.0	1.0	K4T2E825*****
										10.0	22.0	33.0	1.0	K4T2E106*****

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.

CL20T series / Metallized polyester film capacitor (Axial type)

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

Cap (μF)	400VDC (200VAC)			Part Number
	D	L	d	
0.010	5.2	12.0	0.6	K4T2G103*****
0.012	5.2	12.0	0.6	K4T2G123*****
0.015	5.2	12.0	0.6	K4T2G153*****
0.018	5.2	12.0	0.6	K4T2G183*****
0.022	5.2	12.0	0.6	K4T2G223*****
0.027	5.2	12.0	0.6	K4T2G273*****
0.033	5.2	12.0	0.6	K4T2G333*****
0.039	5.2	14.5	0.6	K4T2G393*****
0.047	6.5	14.5	0.6	K4T2G473*****
0.056	6.5	14.5	0.6	K4T2G563*****
0.068	6.5	14.5	0.6	K4T2G683*****
0.082	7.0	14.5	0.8	K4T2G823*****
0.10	7.5	14.5	0.8	K4T2G104*****
0.12	8.0	14.5	0.8	K4T2G124*****
0.15	7.0	20.0	0.6	K4T2G154*****
0.18	7.0	20.0	0.8	K4T2G184*****
0.22	7.5	20.0	0.8	K4T2G224*****
0.27	8.0	20.0	0.8	K4T2G274*****
0.33	9.0	20.0	0.8	K4T2G334*****
0.39	9.5	20.0	0.8	K4T2G394*****
0.47	8.5	27.5	0.8	K4T2G474*****
0.56	9.0	27.5	0.8	K4T2G564*****
0.68	10.0	27.5	0.8	K4T2G684*****
0.82	10.5	27.5	0.8	K4T2G824*****
1.0	10.5	33.0	0.8	K4T2G105*****
1.2	11.5	33.0	0.8	K4T2G125*****
1.5	12.5	33.0	0.8	K4T2G155*****
1.8	13.5	33.0	0.8	K4T2G185*****
2.2	14.5	33.0	0.8	K4T2G225*****
2.7	16.0	33.0	1.0	K4T2G275*****
3.3	17.5	33.0	1.0	K4T2G335*****

Cap (μF)	630VDC (220VAC)			Part Number
	D	L	d	
0.0010	5.2	12.0	0.6	K4T2J102*****
0.0012	5.2	12.0	0.6	K4T2J122*****
0.0015	5.2	12.0	0.6	K4T2J152*****
0.0018	5.2	12.0	0.6	K4T2J182*****
0.0022	5.2	12.0	0.6	K4T2J222*****
0.0027	5.2	12.0	0.6	K4T2J272*****
0.0033	5.2	12.0	0.6	K4T2J332*****
0.0039	5.2	12.0	0.6	K4T2J392*****
0.0047	5.2	12.0	0.6	K4T2J472*****
0.0056	5.2	12.0	0.6	K4T2J562*****
0.0068	6.0	12.0	0.6	K4T2J682*****
0.0082	6.0	12.0	0.8	K4T2J822*****
0.010	6.0	14.5	0.8	K4T2J103*****
0.012	6.0	14.5	0.8	K4T2J123*****
0.015	6.5	14.5	0.6	K4T2J153*****
0.018	7.0	14.5	0.8	K4T2J183*****
0.022	7.5	14.5	0.8	K4T2J223*****
0.027	8.0	14.5	0.8	K4T2J273*****
0.033	7.0	20.0	0.8	K4T2J333*****
0.039	7.5	20.0	0.8	K4T2J393*****
0.047	7.5	20.0	0.8	K4T2J473*****
0.056	8.0	20.0	0.8	K4T2J563*****
0.068	8.5	20.0	0.8	K4T2J683*****
0.082	9.0	20.0	0.8	K4T2J823*****
0.10	8.0	27.5	0.8	K4T2J104*****
0.12	8.5	27.5	0.8	K4T2J124*****
0.15	9.0	27.5	0.6	K4T2J154*****
0.18	10.0	27.5	0.8	K4T2J184*****
0.22	10.5	27.5	0.8	K4T2J224*****
0.27	11.5	27.5	0.8	K4T2J274*****
0.33	11.0	33.0	0.8	K4T2J334*****
0.39	12.0	33.0	0.8	K4T2J394*****
0.47	12.5	33.0	0.8	K4T2J474*****
0.56	13.5	33.0	0.8	K4T2J564*****
0.68	14.5	33.0	0.8	K4T2J684*****
0.82	16.0	33.0	1.0	K4T2J824*****
1.0	17.5	33.0	1.0	K4T2J105*****

Cap (μF)	1000VDC (250VAC)			Part Number
	D	L	d	
0.0010	5.2	12.0	0.6	K4T3A102*****
0.0012	5.2	12.0	0.6	K4T3A122*****
0.0015	5.2	12.0	0.6	K4T3A152*****
0.0018	5.2	12.0	0.6	K4T3A182*****
0.0022	5.2	12.0	0.6	K4T3A222*****
0.0027	5.2	12.0	0.6	K4T3A272*****
0.0033	5.2	12.0	0.6	K4T3A332*****
0.0039	5.2	12.0	0.6	K4T3A392*****
0.0047	5.2	14.5	0.6	K4T3A472*****
0.0056	5.2	14.5	0.6	K4T3A562*****
0.0068	5.2	14.5	0.6	K4T3A682*****
0.0082	6.0	14.5	0.6	K4T3A822*****
0.010	6.0	20.0	0.6	K4T3A103*****
0.012	6.0	20.0	0.6	K4T3A123*****
0.015	6.5	20.0	0.6	K4T3A153*****
0.018	6.5	20.0	0.6	K4T3A183*****
0.022	7.0	20.0	0.8	K4T3A223*****
0.027	7.5	20.0	0.8	K4T3A273*****
0.033	6.5	27.5	0.6	K4T3A333*****
0.039	6.5	27.5	0.6	K4T3A393*****
0.047	7.0	27.5	0.8	K4T3A473*****
0.056	7.5	27.5	0.8	K4T3A563*****
0.068	8.0	27.5	0.8	K4T3A683*****
0.082	8.5	27.5	0.8	K4T3A823*****
0.10	9.0	27.5	0.8	K4T3A104*****
0.12	9.5	27.5	0.8	K4T3A124*****
0.15	9.5	33.0	0.8	K4T3A154*****
0.18	10.0	33.0	0.8	K4T3A184*****
0.22	11.0	33.0	0.8	K4T3A224*****
0.27	12.0	33.0	0.8	K4T3A274*****
0.33	13.0	33.0	0.8	K4T3A334*****
0.39	14.0	33.0	0.8	K4T3A394*****
0.47	15.0	33.0	0.8	K4T3A474*****

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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.