

GENERAL TECHNICAL CHARACTERISTICS 技术特性

Reference standards 参考标准	IEC 61071, IEC 60068
Dielectric 介质材料	Polypropylene film
Construction 封装结构	Dry construction, filled by solid resin, non-inductive type
Case 外壳材料	Polyester tape wrapping; UL94V-0 material filling
Output 引出端	Threaded insert M6 or M8, 2 Lugs

ELECTRICAL CHARACTERISTICS 电气特性

Operating temperature 工作温度范围	- 40 to + 85 °C
Capacitance range 容量范围	15 to 500 μF
Rated voltage range 额定电压	500 to 1100 Vdc
Capacitance tolerance 容量偏差	± 5%, ± 10%
Dissipation factor 损耗角正切	≤ 2 × 10 ⁻³ Measured at 100 Hz and 20±5°C
Life expectancy 预期寿命	100,000 hours at U _{NDC} and 70 °C (Hot-spot temperature)

TEST METHODS AND PERFORMANCES 测试方法

Dielectric strength 介质强度	1.5 × U _{NDC} applied to 10s at 20±5 °C
Test voltage terminal to case 端壳耐压	3KVAC/50Hz for 10s
Insulation resistance (IR * C _N) 绝缘电阻	≥ 5000s but need not exceed 30GΩ, after 1 minute of electrification at 100VDC (20±5°C)

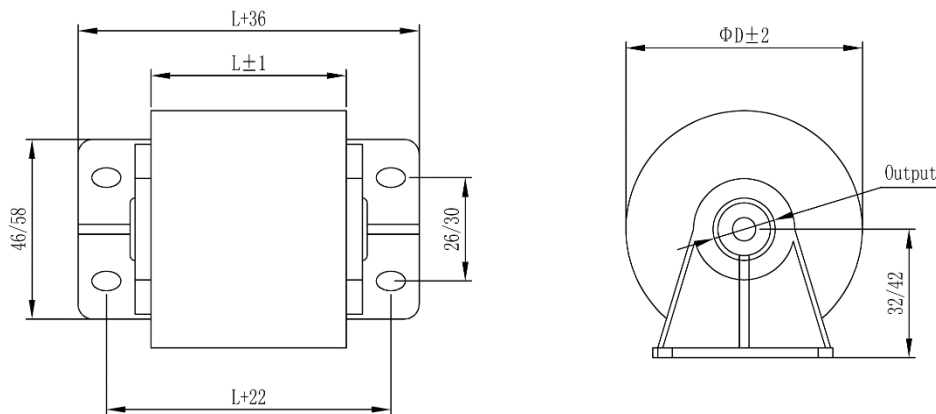
OVER-VOLTAGE 过压保护

1.10 × U _{NDC} for maximum 8 Hour per day
1.15 × U _{NDC} for maximum 30 minimum per day
1.20 × U _{NDC} for maximum 5 minimum per day
1.30 × U _{NDC} for maximum 1 minimum per day
1.50 × U _{NDC} for 30 ms no more than 1000 times

OUTLINE DRAWING 外形图



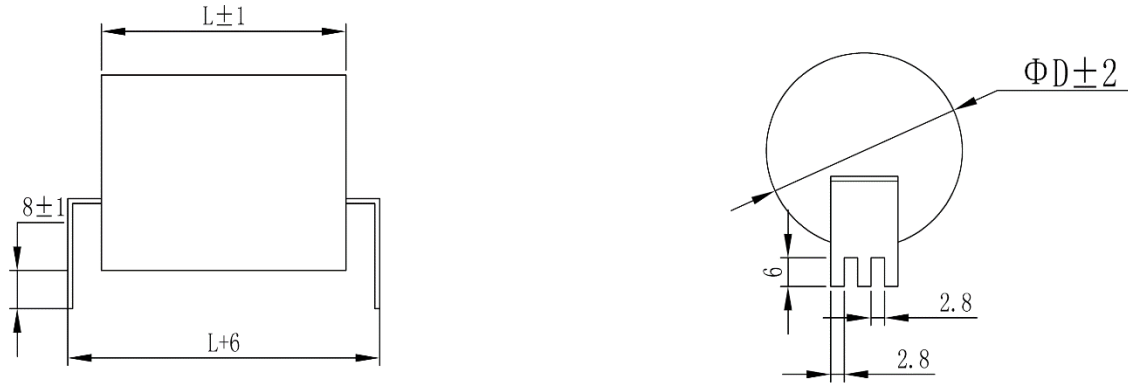
Style S



Style A

Output	M6*8	M8*8
d (mm)	15	18
Max Torque	4.5 N.M	8.5 N.M

OUTLINE DRAWING 外形图



Style H

HOW TO ORDER:

K2T	501D	506	K	R	F	6	S	***
Series Code:	Voltage:	Capacitance:	Cap. Tol.:	Shape:	Output:	Output Size:	Style:	Internal Code
K2T:	501D: 500Vdc	107: 100μF	J: ± 5%, K: ± 10%	R: Round	F: Thread L: Lug	6: M6*8 8: M8*8 2: 2 Lug	S, A, H	

ELECTRICAL SPECIFICATION 规格型号参考

Unit: mm

Part Number	Capacitance (μF)	Dimension			Du/dt (v/μs)	Imax @45°C @10KHz (A)	ESR @1.0KHz (mΩ)
		D	L	Output			
U_{NDC} 500Vdc, Us 750V, Ur 150V							
K2T501D506KR###***	50	50.0	40.0	M6	32	30	1.4
K2T501D806KR###***	80	52.0	50.0	M6	22	31	1.6
K2T501D107KR###***	100	58.0	50.0	M6	22	36	1.4
K2T501D157KR###***	150	58.0	64.0	M6	15	37	1.4
K2T501D257KR###***	250	74.0	64.0	M8	15	53	1.2
K2T501D307KR###***	300	56.0	114.0	M6	7	37	2.7
K2T501D507KR###***	500	72.0	114.0	M8	7	54	1.8
U_{NDC} 700Vdc, Us 1050V, Ur 200V							
K2T701D356KR###***	35	53.0	40.0	M6	47	30	1.6
K2T701D506KR###***	50	52.0	50.0	M6	32	29	1.9
K2T701D806KR###***	80	65.0	50.0	M6	32	40	1.4
K2T701D107KR###***	100	60.0	64.0	M6	21	36	1.9
K2T701D157KR###***	150	72.0	64.0	M8	21	48	1.4
K2T701D207KR###***	200	58.0	114.0	M6	10	35	3.1
K2T701D307KR###***	300	71.0	114.0	M8	10	48	2.2
U_{NDC} 900Vdc, Us 1350V, Ur 250V							
K2T901D206KR###***	20	50.0	40.0	M6	66	25	2.0
K2T901D306KR###***	30	50.0	50.0	M6	44	25	2.4
K2T901D406KR###***	40	58.0	50.0	M6	44	31	1.9
K2T901D506KR###***	50	53.0	64.0	M6	29	27	2.7
K2T901D107KR###***	100	74.0	64.0	M8	29	45	1.6
K2T901D157KR###***	150	63.0	114.0	M6	14	36	3.3
K2T901D207KR###***	200	72.0	114.0	M8	14	45	2.6
U_{NDC} 1100Vdc, Us 1650V, Ur 300V							
K2T112D156KR###***	15	51.0	40.0	M6	83	24	2.2
K2T112D256KR###***	25	53.0	50.0	M6	56	26	2.4
K2T112D406KR###***	40	67.0	50.0	M6	56	37	1.7
K2T112D506KR###***	50	61.0	64.0	M6	37	32	2.4
K2T112D806KR###***	80	77.0	64.0	M8	37	46	1.7
K2T112D107KR###***	100	60.0	114.0	M6	18	31	4.1
K2T112D157KR###***	150	73.0	114.0	M8	18	43	2.9

Remark: 1. ### Output, output size and style; *** Internal code.

2. Customization for special specification and requirement is available.