

Kingtronics®

GKT-VD

Aluminum Electrolytic Capacitor – SMD

FEATURES

- ◆ Endurance : 105°C 5000H
- ◆ Designed for High Voltage
- ◆ Designed for reflow soldering
- ◆ Designed for surface mounting on high-density PCB



Fig 1

Fig 2

Fig 3

Note: Fig 1 & 2: Diameter 4 ~10mm

Fig 3 : Diameter: ≥12.5mm

SPECIFICATIONS

Category Temperature Range	-40°C ~ +105°C	
Rated Voltage Range	400V.DC	
Capacitance Range	1 ~ 22μF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current (MAX)	I ≤ 0.04CV (μA) + 100 (μA) after 5 minutes I = Leakage Current (μA) C = Nominal Capacitance (μF) V = Rated Voltage (V)	
Dissipation Factor (MAX) Tan δ (20°C, 120Hz)	Rated Voltage (V)	400
	Tanδ	0.25
Endurance	After applying rated working voltage for 5000 hours at +105°C ± 2°C, and then being stabilized at +20°C, capacitors shall meet the following limits.	
	Capacitance Change	Within ± 30% of the initial value
	Dissipation Factor	Less than 300% of the initial value
	Leakage Current	Within the initial limit
Shelf Life	After storage for 1000H at +105°C ± 2°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet the limits specified in endurance.	
	After reflow soldering and then being stabilized at +20°C, capacitors shall meet the following limits.	
Resistance to Soldering Heat	Capacitance Change	Within ± 10% of initial value
	Dissipation Factor	Within the initial limit
	Leakage Current	Within the initial limit
	Characteristics at Low Temperature	
Rated Voltage (V)	400	
Z-25°C / Z+20°C	6	
Z-40°C / Z+20°C	10	

DRAWING (Unit: mm)

Fig.4 (Φ8 ~ Φ10)

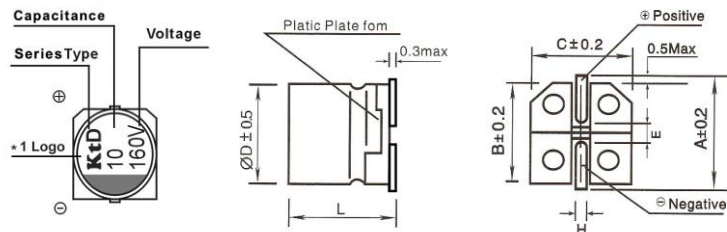
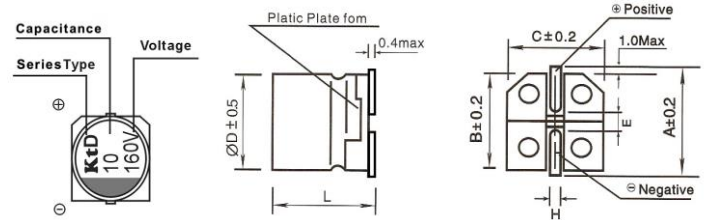


Fig.5 (≥Φ12.5)



*1 Kt logo mark for D:4mm & 5mm is [K] Product Markings: KtD, VD

ΦD	L	A	B	C	E	H	Fig. No.
8	10.5 ± 0.6	9.1	8.3	8.3	3.1	0.8 ~ 1.1	4
8	12.5 ± 0.6	9.1	8.3	8.3	3.1	0.8 ~ 1.1	4
10	10.5 ± 1.0	11.1	10.3	10.3	4.5	0.8 ~ 1.1	4
10	12.5 ± 1.0	11.1	10.3	10.3	4.5	0.8 ~ 1.1	4

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MULTIPLIER FOR RIPPLE CURRENT**Frequency Coefficient**

Frequency	50Hz	120Hz	1kHz	10kHz \leq
Coefficient	0.70	1.00	1.30	1.40

STANDARD RATINGS

WV	400		
μ F	DxL	Tan δ	mA
2.2	8x10.5	0.25	15
3.3	8x10.5	0.25	20
4.7	8x10.5 (8x12.5) (10x10.5)	0.25 (0.25) (0.25)	25 (30) (30)
5.6	8x12.5 (10x10.5)	0.25 (0.25)	35 (35)
6.8	10x10.5	0.25	45
8.2	10x12.5	0.25	55
10	10x12.5	0.25	60
	Case Size \varnothing DxL(mm)	tan δ (120Hz / +20°C)	Rated ripple current (120Hz / +105°C)

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HOW TO ORDER

<u>GKT</u>	<u>VD</u>	<u>0J</u>	<u>M</u>	<u>220</u>	<u>040054</u>	<u>T</u>	<u>R</u>
Series	Sub Series	Voltage	Capacitance Tolerance	Capacitance	Case Size	Packing	Pb
		1.	2.	3.	4.	5.	6.

NOTE:

1. Rated Voltage

Code	2C	2D	2E	2G	2W
Voltage	160	200	250	400	450

2. Capacitance Tolerance

Code	K	M
Tolerance	±10%	±20%

3. Capacitance

Code	010	1R5	2R2	3R3	4R7	5R6	6R8	8R2	100	120	150	220
Capacitance (µF)	1	1.5	2.2	3.3	4.7	5.6	6.8	8.2	10	12	15	22

4. Case Size

Code	080105	080125	100105	100125	125135
Case Size (mm)	8x10.5	8x12.5	10x10.5	10x12.5	12.5x13.5

5. Packing

Code	T
Packing	Tape & Reel

6. Pb

Code	R
Pb	RoHS

Note: Specifications are subject to change without notice.

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