

# Kingtronics®

## ZKT-01

### Axial Wet Tantalum Capacitor

#### FEATURES

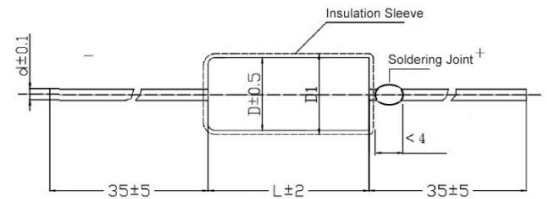


- ◆ Metal case encapsulation, Hermetically-sealed, Tubular, Axial-lead, With insulation sleeve, Heteropolarity.
- ◆ Stable in Electrical Characteristics, High reliability, Good Storage Stability Long life-span, Low DF & DCL.
- ◆ Applying in Telecommunications, such Electrical Equipments with DC & impulse Circuit.

#### SPECIFICATIONS

Technical Data	All technical data relate to an ambient temperature of +25°C
Capacitance Tolerance	±20%, ±10%,
Temperature Range	-55°C to +125°C
DC Leakage	$I_0 \leq 0.01C_R U_R$ (µA) or 0.5µA (which is greater)

Case Code	Uninsulated		With Insulated Sleeve		d±0.1 (mm)
	D±0.5 (mm)	L±2 (mm)	D1 max (mm)	L max (mm)	
A	3.2	8	4	10	0.4
B	5	12	5.8	14	0.6
C	6	14	6.8	16	0.6
D	8	14	8.8	16	0.8
E	8	22	8.8	24	0.8
F	10	22	10.8	24	0.8



Capacitance Range $C_R$ (µF)	Temperature Characteristics								DCL (µA)		
	Range of Capacitance (%)			DF (%)							
	-55°C	85°C	125°C	-55°C	25°C	85°C	125°C	85°C	125°C	85°C	125°C
≤1				3	3	3	3				
1.5 ~ 68	±8	±8	±10	5	5	5	5			8I <sub>0</sub>	10I <sub>0</sub>
100 ~ 330				6	6	6	6				
470 ~ 1000	±12	±12	±15	8	8	8	8				

Rated Voltage $U_R$ (V) Category Voltage $U_R$ (V) Case Code	Rated Voltage, Category Voltage, and Nominal Capacitance									
	6.3	10	16	25	35	40	63	75	100	
	4	6.3	10	16	20	25	40	50	63	
	Nominal Capacitance $C_R$ (µF)									
	1.0	0.68	0.33	0.33	0.22	0.22	0.22	0.22	0.047	
	1.5	1.0	0.47	0.47	0.33	0.33	0.33	0.33	0.068	
	2.2	1.5	0.68	0.68	0.47	0.47	0.47	--	0.1	
A	3.3	3.3	1.0	1.0	0.68	0.68	--	--	0.15	
	4.7	2.2	1.5	1.5	1.0	1.0	--	--	0.22	
	6.8	4.7	2.2	2.2	1.5	--	--	--	0.33	
	10	6.8	3.3	--	--	--	--	--	--	
	15	10	4.7	3.3	2.2	1.5	0.68	0.47	0.47	
	22	15	6.8	4.7	3.3	2.2	1.0	0.68	0.68	
B	33	22	10	6.8	4.7	3.3	1.5	1.0	1.0	
	47	33	15	10	6.8	4.7	2.2	2.2	1.5	
	68	47	22	15	10	6.8	3.3	--	--	
	--	--	33	--	--	--	--	--	--	
C	100	68	47	22	15	10	4.7	3.3	2.2	
	--	100	68	33	--	15	--	4.7	3.3	
D	150	150	100	47	22	22	6.8	--	--	
	220	--	--	68	33	33	10	--	--	
E	330	220	150	100	47	47	15	--	--	
	470	330	220	--	68	--	22	--	--	
F	680	470	330	150	100	68	33	--	--	
	1000	680	470	220	150	100	47	--	--	

- Note:**
1. Please do not use multimeter through the measuring procedures.
  2. Capacitance and DF measured at 100Hz,  $U_{-} = 2.20^{+0.10}V$ ,  $U_{+} = 1.0^{+0.05}V$ , Frequency=100Hz. Test only applied in series equivalent circuit.
  3. Voltage derating is applied at +125°C. (The DCL parameter should be read after 5 minutes when it connected to the circuit).
  4. Special size and demand could consult with us.

Note: Specifications are subject to change without notice

**Kingtronics® International Company**