

# K52-18

TANTALUM WET-SLUG CAPACITOR

elecond-market@elcudm.ru

+7 (34147) 2-99-89

AZHYAR.673543.004 TU

AZHYAR.673543.007 TU

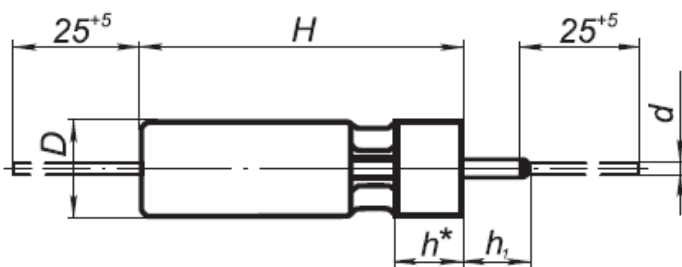


Hermetically-sealed polar capacitors. Capacitors are suitable for application in direct current and ripple current circuits. Capacitors are available in all-climate version.

## MAIN PARAMETERS

Name	Value
Rated voltage, V	6.3...125
Rated capacitance, $\mu\text{F}$	1.5...4 700
Capacitance tolerance (20 °C, 50 Hz), %	$\pm 10$ ; $\pm 20$ ; $\pm 30$
Temporary overvoltage within 10 sec., V	1.15 $U_R$
Maximum operating temperature $T_{env}$ , °C	+125
Minimal operating temperature $T_{env}$ , °C	-60

## CAPASITOR PHYSICAL CONFIGURATION



DxH, mm	$h^*$ , mm	h, mm	d, mm
4.8x18	3.5	6.5	0.6
6.0x20	4.3	5	0.6
7.5x22	4.3	5	0.8



## CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

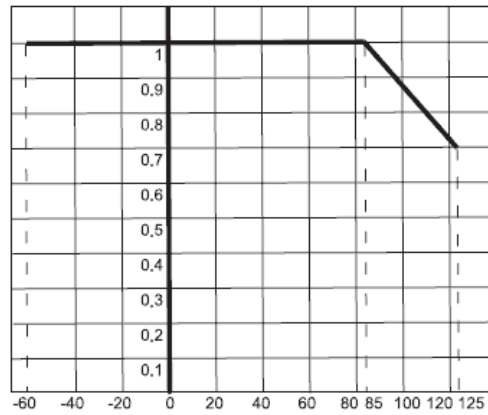
$U_R, V$	$C_R, \mu F$	$\text{tg } \delta, \%, 20 \text{ }^\circ\text{C}, 50 \text{ Hz, max}$	$I_{LEAK}, \mu A, 20 \text{ }^\circ\text{C, after 10 min., max}$	$Z, \text{ Ohm}, 20 \text{ }^\circ\text{C}, 10\text{kHz, max}$
6.3	1 000	35	19.9	2
	2 200	45	42.6	2
	4 700	140	89.8	3
10	680	35	21.4	2
	1 500	45	46.0	2
	3 300	140	100.0	3
16	470	25	23.6	2
	1 000	35	49.0	2
	2 200	45	106.6	3
25	330	25	25.8	2
	680	35	52.0	2
	1 500	45	113.5	2
32	220	20	22.1	2
	470	25	46.1	2
	1 000	35	97.0	4
50	150	20	23.5	2
	330	25	50.5	2
	680	35	103.0	2
63	100	15	19.9	3
	220	20	42.6	3
	470	25	89.8	3
100	15	8	4.0	4
	33	8	7.6	4
	68	15	21.4	6
125	1.5	8	1.4	8
	2.2	8	1.6	8
	3.3	8	1.8	7
	4.7	8	2.2	7
	10	8	3.5	5
	22	8	6.5	3

## CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t, hours	Capacitor failure rate, $\lambda$ , 1/hour, max	
		AZHYAR. 673543.004 TU	AZHYAR. 673543.007 TU
Maximum-permissible mode ( $0.7U_R$ , $T_{env}=125^\circ\text{C}$ )	2 000	$5 \times 10^{-7}$	$5 \times 10^{-8}$
Maximum-permissible mode ( $U_R$ , $T_{env}=85^\circ\text{C}$ )	10 000	$5 \times 10^{-7}$	$5 \times 10^{-8}$
Light mode ( $0.6U_R$ , $T_{env}=55^\circ\text{C}$ )	150 000	$5 \times 10^{-8}$	$3 \times 10^{-8}$
Storageability Gamma-rated time of capacitor storageability $T_{cy}$ at $\gamma=97.5\%$ , years, min	25		

## VOLTAGE VERSUS TEMPERATURE

$$\frac{U_T}{U_R}$$



T, °C

## EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-18 – 6.3V – 1000 $\mu$ F  $\pm$ 20% AZHYAR.673543.004 TU

CAPACITOR K52-18 – 10V – 680 $\mu$ F  $\pm$ 20% AZHYAR.673543.007 TU