

# K52-17

TANTALUM WET-SLUG CAPACITOR

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AZHYAR.673543.003 TU

AZHYAR.673543.006 TU

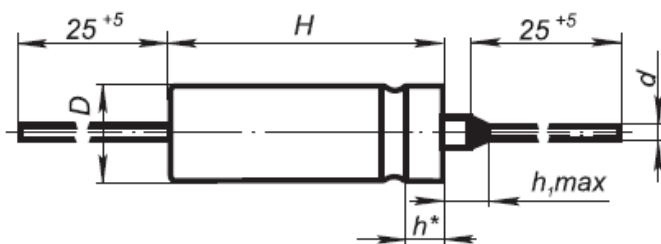


Hermetically-sealed polar capacitors. Capacitors are suitable for application in direct current and ripple current circuits. Capacitors are available in all-climate version.

## MAIN PARAMETERS

Name	Value
Rated voltage, V	6.3...63
Rated capacitance, $\mu\text{F}$	47...2 200
Capacitance tolerance (20 °C, 50 Hz), %	$\pm 10$ ; $\pm 20$ ; $\pm 30$ ; $+50...-20$
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	$h_1$ max, 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

## CAPACITORS OVERALL DIMENSIONS AND MASS

$U_R, V$	6.3	10	16	25	32	50	63
$C_R, \mu F$	<u>DxH, mm</u> mass, g						
47							<u>4.8x18</u> 3.5
68						<u>4.8x18</u> 3.5	
100					<u>4.8x18</u> 3.5		<u>6x20</u> 6.5
150				<u>4.8x18</u> 3.5		<u>6x20</u> 6.5	
220			<u>4.8x18</u> 3.5		<u>6x20</u> 6.5		<u>7.5x22</u> 10
330		<u>4.8x18</u> 3.5		<u>6x20</u> 6.5		<u>7.5x22</u> 10	
470	<u>4.8x18</u> 3.5		<u>6x20</u> 6.5		<u>7.5x22</u> 10		
680		<u>6x20</u> 6.5		<u>7.5x22</u> 10			
1 000	<u>6x20</u> 6.5		<u>7.5x22</u> 10				
1 500		<u>7.5x22</u> 10					
2 200	<u>7.5x22</u> 10						

## CAPACITORS RELIABILITY

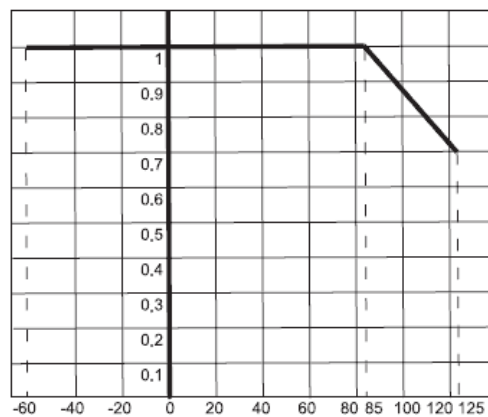
Reliability Operation modes	Minimal nonfailure operating time, t , hours	
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Maximum-permissible mode ( $0.7U_R, T_{env}=125^\circ C$ )	1 000	1 500
Maximum-permissible mode ( $U_R, T_{env}=85^\circ C$ )	5 000	7 500
Maximum-permissible mode ( $U_R, T_{env}=70^\circ C$ )	10 000	15 000
Light mode ( $0.7U_R, T_{env}=70^\circ C$ )	30 000	40 000
Light mode ( $0.6U_R, T_{env}=70^\circ C$ )	60 000	80 000
Light mode ( $0.6U_R, T_{env}=55^\circ C$ )	150 000	200 000
Storageability Gamma-rated time of capacitor storageability $T_{cy}$ at $\gamma=99.5\%$ , years, min	25	

## 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	470	30	6.9	1.5
	1 000	35	19.9	1.0
	2 200	45	42.58	1.5
10	330	30	7.6	2.0
	680	35	21.4	1.0
	1 500	45	46.0	1.0
16	220	25	8.04	3.0
	470	25	23.6	1.5
	1 000	40	46.0	1.5
25	150	15	8.5	2.0
	330	25	25.8	1.5
	680	25	52.0	1.5
32	100	15	7.4	4.0
	220	20	22.1	2.0
	470	25	46.1	1.5
50	68	8	7.8	4.0
	150	20	23.5	2.0
	330	25	50.5	2.0
63	47	8	6.9	5.0
	100	15	19.9	3.0
	220	20	42.6	2.0

## VOLTAGE VERSUS TEMPERATURE

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



$T, ^\circ\text{C}$

## **EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING**

CAPACITOR K52-17 – 50V – 68 $\mu$ F  $\pm$ 20% AZHYAR.673543.003 TU

CAPACITOR K52-17 – 50V – 68 $\mu$ F  $\pm$ 20% AZHYAR.673543.006 TU