

K52-9

TANTALUM WET-SLUG CAPACITOR

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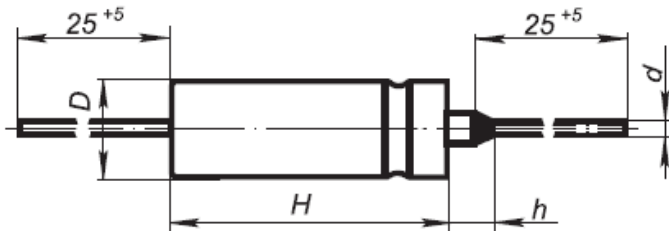
EVAYA.673543.004 TU
OZH0.464.213 TU
OZH0.464.213 TU; OZH0.464.200 TU

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, μF	1.5...1 000
Capacitance tolerance (20 °C, 50 Hz), %	± 10 ; ± 20 ; ± 30
Maximum operating temperature T_{env} , °C	+125
Minimal operating temperature T_{env} , °C	-60

CAPASITOR PHYSICAL CONFIGURATION



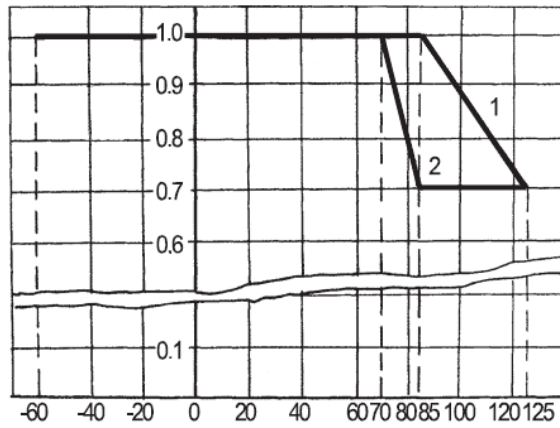
DxH, mm	h, mm	d, mm
4.8x18	6.5	0.6
6x20	5	0.6
7.5x22	5	0.8
9x30	5	0.8

CAPACITORS OVERALL DIMENSIONS AND MASS

U _R , V	6.3	16	25	32	50	63	100	150
C _R , μF	<u>DxH, mm</u> mass, g							
1.5								<u>4.8x18</u> 3.5
2.2								<u>4.8x18</u> 3.5
3.3								<u>4.8x18</u> 3.5
4.7								<u>4.8x18</u> 3.5
6.8							<u>4.8x18</u> 3.5	
10						<u>4.8x18</u> 3.5		<u>6x20</u> 6.5
15					<u>4.8x18</u> 3.5		<u>6x20</u> 6.5	
22				<u>4.8x18</u> 3.5		<u>6x20</u> 6.5		<u>7.5x22</u> 10
33			<u>4.8x18</u> 3.5		<u>6x20</u> 6.5		<u>7.5x22</u> 10	
47		<u>4.8x18</u> 3.5		<u>6x20</u> 6.5		<u>7.5x22</u> 10		
68	<u>4.8x18</u> 3.5		<u>6x20</u> 6.5		<u>7.5x22</u> 10			
100		<u>6x20</u> 6.5		<u>7.5x22</u> 10			<u>9x30</u> 18	
150	<u>6x20</u> 6.5		<u>7.5x22</u> 10			<u>9x30</u> 18		
180					<u>9x30</u> 18			
220	<u>6x20</u> 6.5	<u>7.5x22</u> 10						
270				<u>9x30</u> 18				
330	<u>7.5x22</u> 10							
390			<u>9x30</u> 18					
470	<u>7.5x22</u> 10							
560		<u>9x30</u> 18						
1 000	<u>9x30</u> 18							

VOLTAGE VERSUS TEMPERATURE

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



T, °C

- 1 – for capacitors $U_R = 6.3...125 \text{ V}$ $\varnothing 4.8 \text{ mm}$; 6.0 mm ; 7.5 mm ; $U_R = 6.3...32 \text{ V}$ $\varnothing 9.0 \text{ mm}$
 2 – for capacitors $U_R = 50...100 \text{ V}$ $\varnothing 9.0 \text{ mm}$

CAPACITORS RELIABILITY

Reliability Operation modes	Case \varnothing , mm	U_R , V	Minimal nonfailure operating time, t_λ , hours	
Maximum-permissible mode ($0.7U_R$, $T_{env}=125 \text{ }^\circ\text{C}$)	9	6.3...32	1 000	
Maximum-permissible mode (U_R , $T_{env}=85 \text{ }^\circ\text{C}$)			30 000	
Maximum-permissible mode ($0.7U_R$, $T_{env}=125 \text{ }^\circ\text{C}$)		50... 100	1 000	
Maximum-permissible mode ($0.7U_R$, $T_{env}=85 \text{ }^\circ\text{C}$)			5 000	
Maximum-permissible mode (U_R , $T_{env}=70 \text{ }^\circ\text{C}$)			30 000	
Maximum-permissible mode (U_R , $T_{env}=70 \text{ }^\circ\text{C}$)			30 000	
Maximum-permissible mode ($0.7U_R$, $T_{env}=125 \text{ }^\circ\text{C}$)	4.8; 6; 7.5	6.3... 125	1 000	
Maximum-permissible mode (U_R , $T_{env}=85 \text{ }^\circ\text{C}$)			5 000	
Maximum-permissible mode (U_R , $T_{env}=70 \text{ }^\circ\text{C}$)	9	6.3... 100	10 000	
Light mode ($0.7U_R$, $T_{env}=70 \text{ }^\circ\text{C}$)			50 000	
Light mode ($0.6U_R$, $T_{env}=70 \text{ }^\circ\text{C}$)			100 000	
Light mode ($0.6U_R$, $T_{env}=55 \text{ }^\circ\text{C}$)		150 000		
Light mode ($0.7U_R$, $T_{env}=70 \text{ }^\circ\text{C}$)		4.8; 6; 7.5	6.3... 125	30 000
Light mode ($0.6U_R$, $T_{env}=70 \text{ }^\circ\text{C}$)				60 000
Light mode ($0.6U_R$, $T_{env}=55 \text{ }^\circ\text{C}$)	100 000			
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	68	10	1.9	3
6.3	150	15	2.9	2
6.3	220	15	3.8	2
6.3	330	25	5.2	1.5
6.3	470	25	6.9	1.5
6.3	1 000	35	19.9	1.2
16	47	10	2.5	4
16	100	15	4.2	3
16	220	15	8.1	2
16	560	25	28.9	1.5
25	33	10	2.7	5
25	68	15	4.4	3
25	150	15	8.5	2
25	390	25	30.3	1.5
32	22	10	2.5	6
32	47	10	4.0	4
32	100	15	7.4	3
32	270	20	26.9	1.8
50	15	5	2.5	8
50	33	8	4.3	5
50	68	8	7.8	4
50	180	15	28.0	2
63	10	5	2.3	10
63	22	8	3.8	5
63	47	8	6.9	4
63	150	15	29.4	2
100	6.8	5	2.4	15
100	15	8	4.0	8
100	33	10	7.6	5
100	100	15	31.0	3
125	1.5	8	1.4	50
125	2.2	8	1.6	50
125	3.3	8	1.8	30
125	4.7	8	2.2	30

U_R, V	$C_R, \mu F$	$tg \delta, \%, 20 \text{ }^\circ C, 50 \text{ Hz, max}$	$I_{LEAK}, \mu A, 20 \text{ }^\circ C, \text{ after 10 min., max}$	$Z, Ohm, 20 \text{ }^\circ C, 10kHz, max$
125	10	8	3.5	15
125	22	8	6.5	10

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-9 – 50V – 68 μ F \pm 20% B OZH0.464.213 TU