

K52-11

TANTALUM WET-SLUG CAPACITOR

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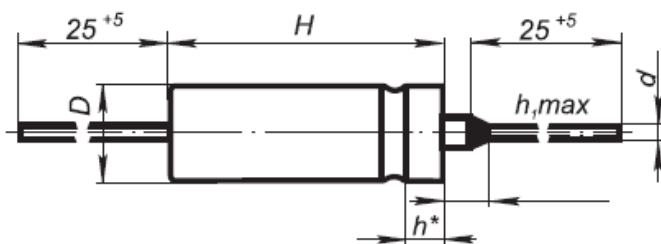
OZH0.464.234 TU
OZH0.464.234 TU; OZH0.464.200 TU

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

MAIN PARAMETERS

Name	Value
Rated voltage, V	6.3...100
Rated capacitance, μF	15...680
Capacitance tolerance (20 °C, 50 Hz), %	± 10 ; ± 20 ; ± 30
Temporary overvoltage within 10 sec., V	1.15 U_R
Maximum operating temperature T_{env} , °C	+85
Minimal operating temperature T_{env} , °C	-60

CAPASITOR PHYSICAL CONFIGURATION



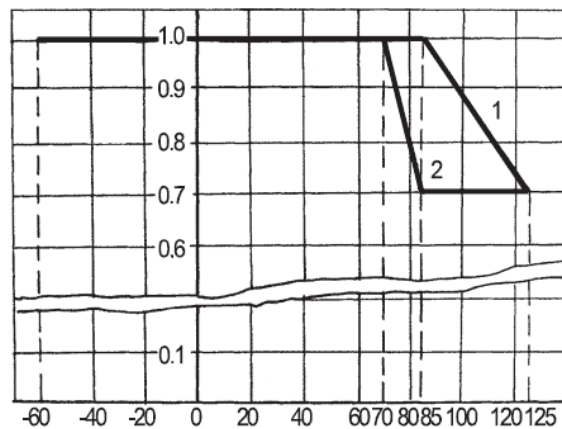
DxH, mm	h^* , mm	h_{1max} , mm	d, mm
4.8x18	3.5	6.5	0.6
6.0x20	4.3	5	0.6
7.5x22	4.3	5	0.8

CAPACITORS OVERALL DIMENSIONS AND MASS

U_R, V	6.3	16	25	32	50	63	100
$C_R, \mu F$	$D \times H, mm$ mass, g						
15							$\frac{4.8 \times 18}{3.5}$
22						$\frac{4.8 \times 18}{3.5}$	
33					$\frac{4.8 \times 18}{3.5}$		$\frac{6 \times 20}{6.5}$
47				$\frac{4.8 \times 18}{3.5}$		$\frac{6 \times 20}{6.5}$	
68			$\frac{4.8 \times 18}{3.5}$		$\frac{6 \times 20}{6.5}$		$\frac{7.5 \times 22}{10}$
100		$\frac{4.8 \times 18}{3.5}$		$\frac{6 \times 20}{6.5}$		$\frac{7.5 \times 22}{10}$	
150	$\frac{4.8 \times 18}{3.5}$		$\frac{6 \times 20}{6.5}$		$\frac{7.5 \times 22}{10}$		
220		$\frac{6 \times 20}{6.5}$		$\frac{7.5 \times 22}{10}$			
330	$\frac{6 \times 20}{6.5}$		$\frac{7.5 \times 22}{10}$				
470		$\frac{7.5 \times 22}{10}$					
680	$\frac{7.5 \times 22}{10}$						

VOLTAGE VERSUS TEMPERATURE

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



$T, ^\circ C$

- 1 – for capacitors $U_R \leq 32 V$
- 2 – for capacitors $U_R > 32 V$

CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t_n , hours
Maximum-permissible mode (U_R , $T_{env}=85^\circ\text{C}$) for capacitors $U_R \leq 32\text{V}$	5 000
Maximum-permissible mode ($0.7U_R$, $T_{env}=85^\circ\text{C}$) for capacitors $U_R > 32\text{V}$	
Maximum-permissible mode (U_R , $T_{env}=70^\circ\text{C}$)	10 000
Light mode ($0.6U_R$, $T_{env}=70^\circ\text{C}$)	20 000
Light mode ($0.6U_R$, $T_{env}=60^\circ\text{C}$), $U > 50\text{V}$	40 000
Light mode ($0.6U_R$, $T_{env}=55^\circ\text{C}$), $U \leq 50\text{V}$	60 000
Light mode ($0.6U_R$, $T_{env}=65^\circ\text{C}$)	70 000
Storageability Gamma-rated time of capacitor storageability T_{cy} at $\gamma=99.5\%$, years, min	15

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R , V	C_R , μF	$\text{tg } \delta$, %, 20 °C, 50 Hz, max	I_{LEAK} , μA , 20 °C, after 10 min., max	Z , Ohm, 20 °C, 10kHz, max
6.3	150	20	2.9	4
	330	30	5.2	3
	680	30	9.6	1.5
16	100	15	4.2	4
	220	15	8.1	3
	470	20	16.1	1.5
25	68	10	4.4	4
	150	15	8.5	3
	330	20	17.5	1.5
32	47	10	4.0	6
	100	15	7.4	4
	220	20	15.1	2
50	33	8	4.3	8
	68	8	7.8	6
	150	20	16.0	2
63	22	8	3.8	8
	47	8	6.9	5
	100	15	13.6	3
100	15	8	4.0	10
	33	8	7.6	6
	68	15	14.6	4

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-11 – 50V – 68 μ F \pm 20% B OZH0.464.234 TU