

K52-30

TANTALUM WET-SLUG CAPACITOR

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AZHYAR.673543.019 TU

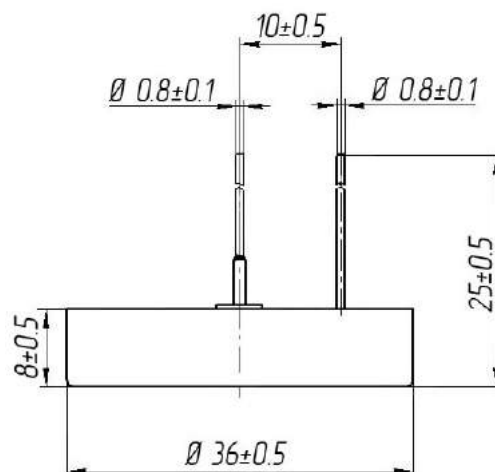


Polar, fixed capacitors sealed in tantalum cylindrically shaped case with radial leads. Capacitors are intended for operation in direct and pulse current circuits.

MAIN PARAMETERS

Name	Value
Rated voltage, V	6.3 ... 125
Rated capacitance, μF	1 100 ... 60 000
Capacitance tolerance (25 °C, 50 Hz), %	± 10 ; ± 20 ; ± 30
Maximum operating temperature T_{env} , °C	+125
Minimal operating temperature T_{env} , °C	-60

GENERAL VIEW DRAWING



CAPACITORS OVERALL DIMENSIONS AND MASS

U_R, V	6.3	10	16	25	35	50	63	80	100	110	125
$C_R, \mu F$	$\frac{D \times H, mm}{mass, g}$										
1100											$\frac{36 \times 8}{65}$
1500										$\frac{36 \times 8}{65}$	
1900									$\frac{36 \times 8}{65}$		
2800								$\frac{36 \times 8}{65}$			
3300							$\frac{36 \times 8}{65}$				
4000							$\frac{36 \times 8}{65}$				
4700						$\frac{36 \times 8}{65}$					
8000						$\frac{36 \times 8}{65}$					
10000					$\frac{36 \times 8}{65}$						
12000					$\frac{36 \times 8}{65}$						
18000				$\frac{36 \times 8}{65}$							
22000			$\frac{36 \times 8}{65}$								
30000			$\frac{36 \times 8}{65}$								
50000		$\frac{36 \times 8}{65}$									
60000	$\frac{36 \times 8}{65}$										

CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t_λ , hours	Capacitor failure rate, λ , 1/hour, max
Maximum-permissible mode (U_R , $T_{env}=85^\circ C$)	5 000	1×10^{-6}
Maximum-permissible mode ($0.6U_R$, $T_{env}=125^\circ C$)	1 000	1×10^{-6}
Light mode ($0.8U_R$, $T_{env}=85^\circ C$)	10 000	1×10^{-6}
Light mode ($0.6U_R$, $T_{env}=60^\circ C$)	200 000	5×10^{-8}
Storageability Gamma-rated time of capacitor storageability T_{cy} at $\gamma=99.0\%$, years, min	30	

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R, V	$C_R, \mu F$	$tg \delta, \%, 50 \text{ Hz, max}$	$I_{LEAK}, \mu A, \text{ max}$	$ESR, \text{ Ohm, } 100 \text{ kHz, max}$
6.3	60000	300	1890	0.2
10	50000	300	2500	0.22
16	22000	250	1760	0.23
16	30000	250	2400	0.24
25	18000	200	2250	0.26
35	10000	150	1750	0.28
35	12000	180	2100	0.27
50	4700	100	1175	0.3
50	8000	100	2000	0.29
63	3300	100	1040	0.32
63	4000	100	1260	0.31
80	2800	100	1120	0.34
100	1900	80	950	0.36
110	1500	80	825	0.38
125	1100	75	688	0.4

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-30 – 63V – 4000 μ F \pm 10% AZHYAR.673543.019 TU