

K52-21

TANTALUM WET-SLUG CAPACITOR

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AZHYAR.673543.008 TU

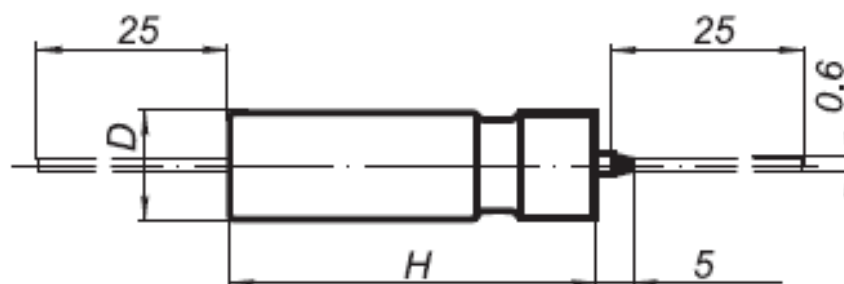
Hermetically-sealed polar capacitors. Capacitors are suitable for application in direct current and ripple current circuits. Capacitors are available in all-climate version.



MAIN PARAMETERS

Name	Value
Rated voltage, V	63
Rated capacitance, μF	10...470
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	+125
Minimal operating temperature T_{env} , °C	-60

CAPASITOR PHYSICAL CONFIGURATION



CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t_{λ} , hours	Capacitor failure rate, λ , 1/hour, max
Maximum-permissible mode ($0.7U_R$, $T_{env}=125^{\circ}\text{C}$)	10 000	2×10^{-5}
Maximum-permissible mode (U_R , $T_{env}=85^{\circ}\text{C}$)	40 000	2×10^{-6}
Maximum-permissible mode ($0.8U_R$, $T_{env}=105^{\circ}\text{C}$)	20 000	5×10^{-6}
Light mode ($0.6U_R$, $T_{env}=55^{\circ}\text{C}$)	150 000	10^{-7}
Light mode ($0.6U_R$, $T_{env}=70^{\circ}\text{C}$)	100 000	10^{-7}
Storageability Gamma-rated time of capacitor storageability T_{cy} at $\gamma=99.5\%$, years, min	30	

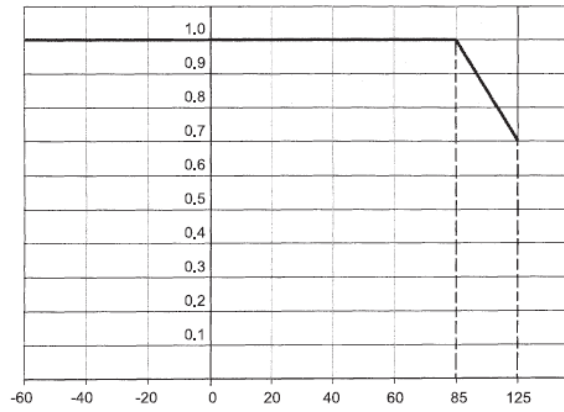
DIMENSION SIZES, MASS AND CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R , V	C_R , μF	Dimensions, mm		Mass, g	$\text{tg } \delta$, %, 20 °C, 50 Hz, max	I_{LEAK} , μA , 20 °C, after 10 min., max	Z, Ohm, 20 °C, 10kHz, max	ESR, Ohm, 20 °C, 100kHz, max	Pulse mode*
		D	L						Effective current, A, 100 khz, max
63	10	7.5	22.0	10	3.0	1.9	1.5	0.3	2.8
	15				3.7	2.8	1.2	0.3	3.3
	22				4.0	4.2	1.0	0.3	3.6
	33				6.0	6.2	0.95	0.3	4.2
	47				8.0	8.9	0.95	0.3	4.4
	68	9.0	30.0	18	10.0	12.9	0.85	0.25	4.9
	100				11.5	18.9	0.75	0.2	5.1
	150				12.0	28.4	0.65	0.2	5.2
	220				12.7	41.6	0.55	0.16	5.6
	330				11.0	32.0	20	14.0	62.4
470	15.0	88.8	0.45	0.15				6.8	

* Pulse form – sinusoidal

VOLTAGE VERSUS TEMPERATURE

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



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

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-21 – 63V – 220 μF $\pm 20\%$ AZHYAR.673543.008 TU