

# K52-27

TANTALUM WET-SLUG CAPACITOR

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AZHYAR.673543.016 TU

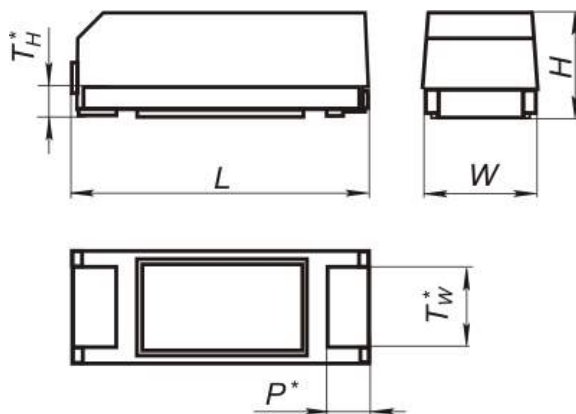
Polar SMD capacitors designed for operation in DC, pulse current circuits and in pulse mode. Capacitors are manufactured in all-climate version.



## MAIN PARAMETERS

Name	Value
Rated voltage, V	100...160
Rated capacitance, $\mu\text{F}$	1.5...220
Capacitance tolerance (20 °C, 50 Hz), %	$\pm 10$ ; +20; $\pm 30$
Maximum operating temperature $T_{env}$ , °C ( $U_{nom}=100\text{B}, 125\text{B}$ )	+125
Maximum operating temperature $T_{env}$ , °C ( $U_{nom}=160\text{B}$ )	+70
Minimal operating temperature $T_{env}$ , °C ( $U_{nom}=100\text{B}, 125\text{B}$ )	-60
Minimal operating temperature $T_{env}$ , °C ( $U_{nom}=160\text{B}$ )	-40

## CAPASITOR PHYSICAL CONFIGURATION



## CAPACITOR ELECTRIC PARAMETERS VALUE AND DIMENSION CODE

U <sub>R</sub> , V	C <sub>R</sub> , μF	Case code	tg δ, %, 25 °C, 50 Hz	I <sub>LEAK</sub> , μA, 20 °C	Z, Ohm, 25 °C	ESR, Ohm, 25 °C, 100kHz
100	22	A	8	7	2.2	1.5
100	33	A	8	10	2.1	1
100	47	B	12	20	1.9	0.8
100	68	B	14	28	1.8	0.7
100	100	C	15	40	1.5	0.6
100	150	D	20	60	0.6	0.5
100	220	E	25	87	0.5	0.5
125	6.8	A	6	4	10	1.8
125	10	A	6	5	10	1.5
125	15	B	6.5	7	3.6	0.8
125	22	B	7	9	2.1	0.7
125	33	C	9	18	1.4	0.6
125	47	C	9	25	1.3	0.6
125	68	D	15	35	0.6	0.5
125	100	D	18	50	0.6	0.5
125	150	E	20	74.5	0.5	0.5
160	1.5	A	10	2	30	13.5
160	2.2	A	14	3	30	13
160	3.3	A	16	3	20	11
160	4.7	A	22	4	15	11
160	6.8	B	26	4	15	9
160	10	B	30	6	8	8
160	15	C	40	8	7.5	7
160	22	C	48	11	6	5
160	33	C	58	22	5.5	4.5
160	47	D	62	31	3.5	3.3
160	68	D	70	44	3.5	3
160	100	E	82	64	2.5	2.5

## CAPACITORS OVERALL DIMENSIONS AND MASS

Case code	L, mm	W, mm	H, mm	P*, mm	T <sub>W</sub> *, mm	T <sub>H</sub> *, mm	Mass, g, max
A	26.0±0.3	7.0±0.3	6.5±0.3	5.0	5.0±0.3	2.0	4.5
B	28.0±0.3	8.2±0.3	7.7±0.3	5.0	6.2±0.3	2.0	8.5
C	30.0±0.3	9.7±0.3	9.2±0.3	5.0	7.7±0.3	2.0	13.0
D	38.0±0.3	11.2±0.3	10.7±0.3	5.0	9.2±0.3	2.0	22.5
E	42.0±0.3	13.2±0.3	13.0±0.3	5.0	10.7±0.3	2.0	34.5

\* Parameter is not subject to inspection

## CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t <sub>λ</sub> , hours
Maximum-permissible mode (U <sub>R</sub> =100B,125B, Tenv=85°C)	10 000
Maximum-permissible mode (U <sub>R</sub> =160B, Tenv=70°C)	5 000
Light mode и условия эксплуатации (0.6U <sub>R</sub> , Tenv=60°C)	150 000
Storageability Gamma-rated time of capacitor storageability Tcy at γ=97.5%, years, min	30

## EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-27 "A" – 100V – 33 μF ±10% AZHYAR.673543.016 TU