

K53-79

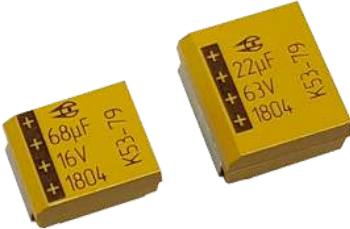
TANTALUM SOLID-ELECTROLYTE CAPACITOR

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AZHYAR.673546.017 TU

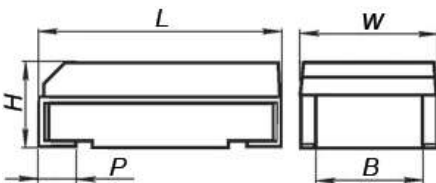
Polar, fixed chip capacitors are intended for operation in direct and pulse current circuits and in pulsed mode. Capacitors have been developing in the form of rectangular design for internal wiring with two pads.



MAIN PARAMETERS

Name	Value
Rated voltage, V	6.3 ... 63
Rated capacitance, μF	4.7 ... 330
Capacitance tolerance (25°C, 50 Hz), %	± 10 ; +20
Maximum operating temperature T_{env} , °C	+125
Minimal operating temperature T_{env} , °C	-60

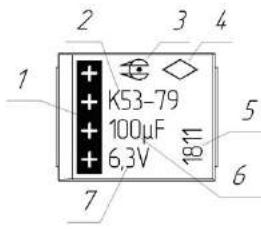
CAPACITORS OVERALL DIMENSIONS AND MASS



Case code	L, mm	W, mm	H, mm	P*, mm	B*, mm	Mass, g
L	11 \pm 0.5	9 \pm 0.5	4.5 \pm 0.5	1.5 \pm 0.3	7 \pm 0.3	3
H	11 \pm 0.5	12.5 \pm 0.5	5.5 \pm 0.5	1.5 \pm 0.3	10.5 \pm 0.3	4

* Parameter is not subject to inspection

MARKING OF CAPACITORS



- 1 – Positive terminal (color stripe)
- 2 – Capacitor type
- 3 – Trademark of manufacturer
- 4 – Military grade
- 5 – Date of manufacture
- 6 – Rated capacitance, μF
- 7 – Rated voltage, V

CAPACITORS CASE CODE

$C_R, \mu\text{F}$	6.3	10	16	20	25	40	50	63
	U_R, V							
4.7								L
6.8								L
10								L
15							L	H
22					L	L	H	H
33				L	L	H		
47			L	L	H	H		
68		L	L	H	H			
100	L	L	H	H				
150	L	H	H					
220	H	H						
330	H							

CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t_λ , hours	Capacitor failure rate, λ , 1/hour, max
Maximum-permissible mode (U_R , $T_{env}=65^\circ\text{C}$)	132 000	1×10^{-6}
Maximum-permissible mode (U_R , $T_{env}=85^\circ\text{C}$)	30 000	1×10^{-6}
Maximum-permissible mode ($0.66U_R$, $T_{env}=125^\circ\text{C}$)	30 000	1×10^{-6}
Light mode ($0.6U_R$, $T_{env}=60^\circ\text{C}$)	150 000	1×10^{-10}
Storageability Gamma-rated time of capacitor storageability T_{cy} at $\gamma=97.5\%$, years, min	30	

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R, V	$C_R, \mu F$	$tg \delta, \% T=25^\circ C, F=50Hz$	$I_{LEAK}, \mu A$ $T=25^\circ C, \text{ after } 5 \text{ min.}$	$ESR, m\Omega T=25^\circ C, F=500kHz$
6.3	100	12	6.3	55
6.3	150	12	9.4	50
6.3	220	12	13.8	40
6.3	330	12	20.7	25
10	68	12	6.8	60
10	100	12	10	55
10	150	12	15	45
10	220	12	22	40
16	47	12	7.5	65
16	68	12	10.8	60
16	100	12	16	50
16	150	12	24	45
20	33	12	6.6	75
20	47	12	9.4	65
20	68	12	13.6	55
20	100	12	20	50
25	22	12	5.5	80
25	33	12	8.2	75
25	47	12	11.7	65
25	68	12	17	60
40	22	12	8.8	95
40	33	12	13.2	80
40	47	12	18.8	70
50	15	12	7.5	130
50	22	12	11	110
63	4.7	12	2.9	155
63	6.8	12	4.2	150
63	10	12	6.3	145
63	15	12	9.4	135
63	22	12	13.8	125

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K53-79 "L" – 10 V – 100 μF $\pm 10\%$ AZHYAR.673546.017 TU