

K53-80

TANTALUM SOLID-ELECTROLYTE CAPACITOR

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AZHYAR.673546.018 TU

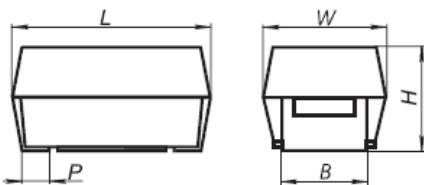


Polar, fixed chip capacitors are intended for operation in direct and pulse current circuits and in pulsed mode. Capacitors have been developing in the form of rectangular design for internal wiring with two pads.

MAIN PARAMETERS

Name	Value
Rated voltage, V	2.5 ... 50
Rated capacitance, μF	6.8 ... 1 500
Capacitance tolerance (25°C, 50 Hz), %	± 10 ; +20
Maximum operating temperature T_{env} , °C	+125
Minimal operating temperature T_{env} , °C	-60

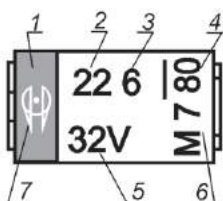
CAPACITORS OVERALL DIMENSIONS AND MASS



Case code	L, mm	W, mm	H, mm	P*, mm	B*, mm	Mass, g
E	7.3 \pm 0.3	4.3 \pm 0.3	4.1 \pm 0.3	1.3 \pm 0.3	2.4 \pm 0.1	0.7

* Parameter is not subject to inspection

MARKING OF CAPACITORS



- 1 – Positive terminal (color stripe)
- 2 – Rated capacitance, pF
- 3 – Capacitance multiplier code
- 4 – Capacitor type (only "80" is marked, stripe unavailability is acceptable)
- 5 – Rated voltage, V
- 6 – Date of manufacture code
- 7 – Trademark of manufacturer

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R, V	$C_R, \mu F$	$tg \delta, \% T=25^\circ C, F=50Hz$	$I_{LEAK}, \mu A T=25^\circ C, \text{ after } 5 \text{ min.}$	$ESR, mOhm T=25^\circ C, F=100kHz$
2.5	1000	6	25	35
2.5	1500	6	37.5	35
4	680	6	27.5	35
4	1000	6	40	35
6.3	470	6	29.6	35
6.3	680	6	42.8	35
10	330	6	33	40
10	470	6	47	40
16	150	6	24	50
16	220	6	35.2	50
20	68	6	13.6	60
20	100	6	20	60
20	150	6	30	60
25	33	6	8.2	80
25	47	6	11.7	75
25	68	6	17	65
32	15	6	4.8	100
32	22	6	7	100
32	33	6	10.5	90
40	10	6	4	140
40	15	6	6	140
40	22	6	8.8	140
50	6.8	6	3.4	150
50	10	6	5	150
50	15	6	7.5	150

CAPACITORS RELIABILITY

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

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K53-80 "E" – 25 V – 15 μ F $\pm 10\%$ AZHYAR.673546.018 TU