

K52-1BM

TANTALUM WET-SLUG CAPACITOR

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OZH0.464.209 TU
OZH0.464.039 TU
OZH0.464.039 TU; OZH0.464.200 TU

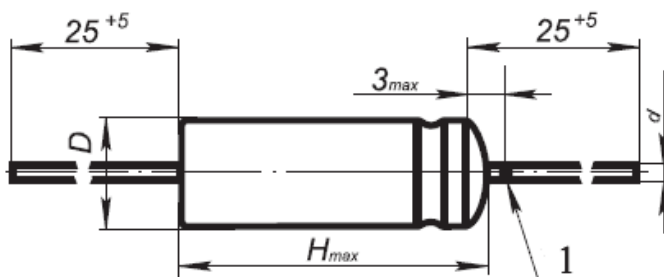
Capacitors are suitable for application in direct current and ripple current circuits. K52-1B type is available in all-climate and temperate/cold climate version. K52-1BM type is available in all-climate version.



MAIN PARAMETERS

Name	Value
Rated voltage, V	6.3...100
Rated capacitance, μF	3.3...680
Capacitance tolerance (20 °C, 50 Hz), %	± 10 ; ± 20 ; ± 30 ; $+50...-20$
Maximum operating temperature T_{env} , °C	+85
Minimal operating temperature T_{env} , °C	-60

CAPASITOR PHYSICAL CONFIGURATION



1 – Welding point

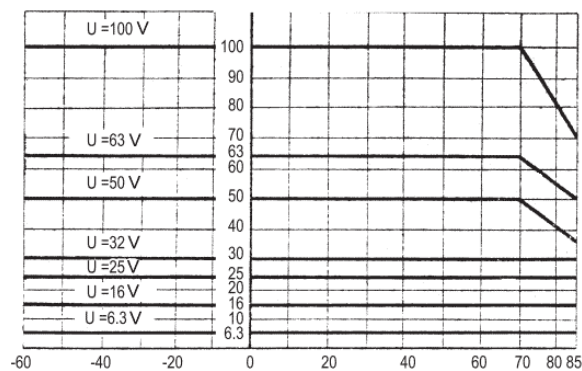
DxH, mm	d, mm
3x11; 4x14.5; 4.6x17.5; 6x20	0.6
7.5x22.5	0.8

CAPACITORS OVERALL DIMENSIONS AND MASS

U _R , V	6.3	16	25	32	50	63	100
C _R , μF	<u>DxH, mm</u> mass, g						
3.3							<u>3.0x11</u> 0.8
4.7						<u>3.0x11</u> 0.8	
6.8					<u>3.0x11</u> 0.8		<u>4.0x14.5</u> 1.5
10				<u>3.0x11</u> 0.8		<u>4.0x14.5</u> 1.5	
15			<u>3.0x11</u> 0.8		<u>4.0x14.5</u> 1.5		<u>4.6x17.5</u> 2.5
22		<u>3.0x11</u> 0.8		<u>4.0x14.5</u> 1.5		<u>4.6x17.5</u> 2.5	
33	<u>3.0x11</u> 0.8		<u>4.0x14.5</u> 1.5		<u>4.6x17.5</u> 2.5		<u>6.0x20</u> 4.5
47		<u>4.0x14.5</u> 1.5		<u>4.6x17.5</u> 2.5		<u>6.0x20</u> 4.5	
68	<u>4.0x14.5</u> 1.5		<u>4.6x17.5</u> 2.5		<u>6.0x20</u> 4.5		<u>7.5x22.5</u> 7
100		<u>4.6x17.5</u> 2.5		<u>6.0x20</u> 4.5		<u>7.5x22.5</u> 7	
150	<u>4.6x17.5</u> 2.5		<u>6.0x20</u> 4.5		<u>7.5x22.5</u> 7		
220		<u>6.0x20</u> 4.5		<u>7.5x22.5</u> 7			
330	<u>6.0x20</u> 4.5		<u>7.5x22.5</u> 7				
470		<u>7.5x22.5</u> 7					
680	<u>7.5x22.5</u> 7						

VOLTAGE VERSUS TEMPERATURE

U_T, V



T, °C

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R, V	$C_R, \mu F$	$tg \delta, \%, 20 \text{ }^\circ C, 50 \text{ Hz, max}$	$I_{LEAK}, \mu A, 20 \text{ }^\circ C, \text{ after } 10 \text{ min., max}$	$Z, Ohm, 20 \text{ }^\circ C, 10kHz, \text{ max}$
6.3	33	10	1.1	8
	68		1.9	5
	150	15	2.9	2.5
	330	30	5.2	2
	680		9.6	1
16	22	10	1.7	10
	47		2.5	6
	100	15	4.2	3
	220		8.1	2
	470	20	16.1	1
25	15	8	1.8	12
	33		2.7	6
	68	10	4.4	3
	150	15	8.5	2
	330	20	17.5	1
32	10	8	1.6	13
	22		2.4	8
	47	10	4.0	4
	100	15	7.4	2.5
	220	20	15.1	1.5
50	6.8	3	1.7	15
	15		2.5	8
	33	8	4.3	4
	68		7.8	2.5
	150	20	16.0	1.5
63	4.7	3	1.6	18
	10		2.3	10
	22	8	3.8	5
	47		6.9	3
	100	15	13.6	2
100	3.3	3	1.7	25
	6.8		2.4	15
	15	8	4.0	8
	33		7.6	4
	68	15	14.6	3

CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t_n , hours
Maximum-permissible mode ($0.7U_R$, $T_{env}=85\text{ °C}$) for capacitors $U_R=50\dots100V$	5 000
Maximum-permissible mode (U_R , $T_{env}=85\text{ °C}$) for capacitors $U_R=6.3\dots32V$	
Maximum-permissible mode (U_R , $T_{env}=70\text{ °C}$)	20 000
Light mode ($(0.2-0.8)U_R$, $T_{env}=70\text{ °C}$)	25 000
Storageability Gamma-rated time of capacitor storageability T_{cy} at $\gamma=97.5\%$, years, min	20

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-1B – 6.3V – 33 μ F \pm 20% B OZH0.464.039 TU

CAPACITOR K52-1BM – 6.3V – 33 μ F \pm 20% OZH0.464.039 TU