K52-1

TANTALUM WET-SLUG CAPACITOR

elecond-market@elcudm.ru
+7 (34147) 2-99-89

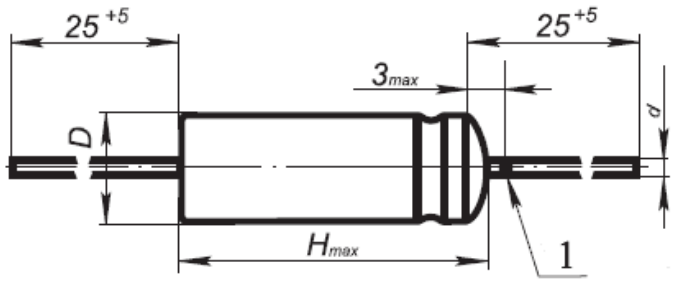
OZH0.464.209 TU
OZH0.464.039 TU
OZH0.464.039 TU; OZH0.464.200 TU

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

MAIN PARAMETERS

Name	Value
Rated voltage, V	3.2...100
Rated capacitance, μF	1.5...470
Capacitance tolerance (20 °C, 50 Hz), %	±10; ±20; ±30; ±50; +50...-20
Maximum operating temperature Tenv, °C	+85
Minimal operating temperature Tenv, °C	-60

CAPASITOR PHYSICAL CONFIGURATION



1 – Welding point

DxH, mm	d, mm
3x11; 4x14.5; 4.6x17.5; 6x20	0.6
7.5x24	0.8

CAPACITORS OVERALL DIMENSIONS AND MASS

U_R, V	3.2	6.3	16	25	35	50	70	100
C_R, µF	DxH, mm mass, g							
1.5								3.0x11 1
2.2							3.0x11 1	
3.3						3.0x11 1		4.0x14.5 2
4.7					3.0x11 1		4.0x14.5 2	
6.8				3.0x11 1		4.0x14.5 2		4.6x17.5 2.5
10			3.0x11 1		4.0x14.5 2		4.6x17.5 2.5	
15		3.0x11 1		4.0x14.5 2		4.6x17.5 2.5		6.0x20 5
22	3.0x11 1		4.0x14.5 2		4.6x17.5 2.5		6.0x20 5	
33		4.0x14.5 2		4.6x17.5 2.5		6.0x20 5		7.5x24 7.5
47	4.0x14.5 2		4.6x17.5 2.5		6.0x20 5		7.5x24 7.5	
68		4.6x17.5 2.5		6.0x20 5		7.5x24 7.5		
100	4.6x17.5 2.5		6.0x20 5		7.5x24 7.5			
150		6.0x20 5		7.5x24 7.5				
220		6.0x20 5	7.5x24 7.5					
330		7.5x24 7.5						
470		7.5x24 7.5						

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

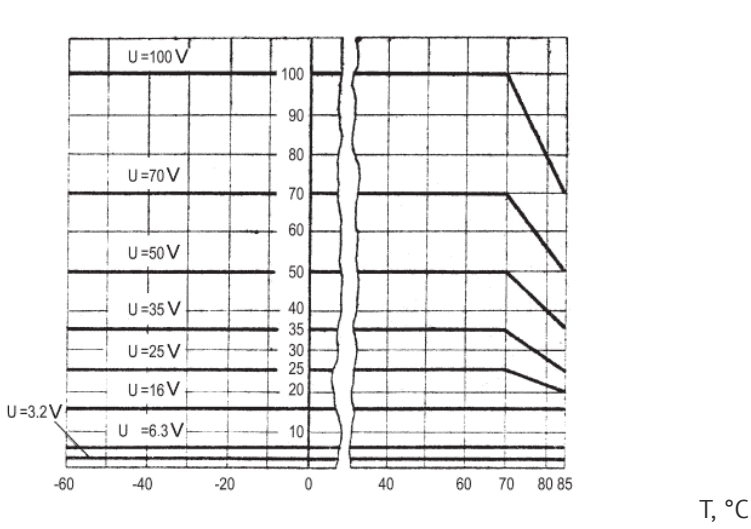
U_R, V	C_R, µF	tg δ, %, 20 °C, 50 Hz, max	I_{LEAK}, µA, 20 °C, after 10 min., max	Z, Ohm, 20 °C, 10kHz, max
3.2	22	15	1.1	8
3.2	47	15	1.3	4
3.2	100	15	1.6	2
6.3	15	10	1.2	10
6.3	33	10	1.4	5

U_R, V	C_R, µF	tg δ, %, 20 °C, 50 Hz, max	I_{LEAK}, µA, 20 °C, after 10 min., max	Z, Ohm, 20 °C, 10kHz, max
6.3	68	10	1.9	2.5
6.3	150	15	2.9	2
6.3	220	15	3.8	2
6.3	330	15	5.2	1.5
6.3	470	15	6.9	1
16	10	10	1.3	13
16	22	10	1.7	6
16	47	10	2.5	3
16	100	15	4.2	2
16	220	15	8.1	1.5
25	6.8	10	1.3	15
25	15	10	1.8	8
25	33	10	2.7	4
25	68	15	4.4	2.5
25	150	15	8.5	1.5
35	4.7	10	1.3	20
35	10	10	1.7	10
35	22	10	2.5	5
35	47	10	4.3	3
35	100	15	8.0	1.5
50	3.3	5	1.3	25
50	6.8	5	1.7	12
50	15	5	2.5	6
50	33	8	4.3	3.5
50	68	8	7.8	2
70	2.2	5	1.3	30
70	4.7	5	1.7	15
70	10	5	2.4	8
70	22	8	4.1	4
70	47	8	7.6	2
100	1.5	5	1.3	40
100	3.3	5	1.7	20
100	6.8	5	2.4	10
100	15	8	4.0	5
100	33	8	7.6	3

CAPACITORS RELIABILITY

Reliability Operation modes	Minimal nonfailure operating time, t_λ, hours
Maximum-permissible mode (0.7U_R, Tenv=85 °C) for capacitors U_R=25...100V	5 000
Maximum-permissible mode (U_R, Tenv=85 °C) for capacitors U_R=3.2V; 6.3V; 16V	
Maximum-permissible mode (U_R, Tenv=70 °C)	20 000
Light mode ((0.2-0.8)U_R, Tenv=70 °C)	25 000
Storageability Gamma-rated time of capacitor storageability Tcy at y=99.5%, years, min	20

VOLTAGE VERSUS TEMPERATURE



EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K52-1 – 6.3V – 33μF ±10% OZH0.464.039 TU

CAPACITOR K52-1M – 6.3V – 33μF ±10% OZH0.464.039 TU

CAPACITOR K52-1 – 35V – 22μF ±10% B OZH0.464.039 TU, OZH0.464.200 TU