

K50-37

ALUMINUM ELECTROLYTIC CAPACITOR

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OZH0.464.239 TU Figure 2

OZH0.464.224 TU Figure 2



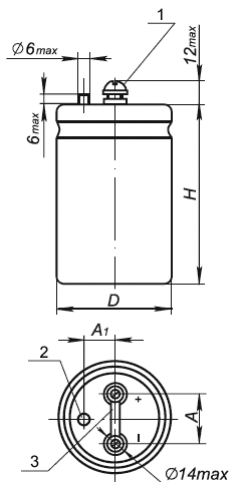
Capacitors are suitable for application in direct current, ripple current and pulse current circuits and produced in all climate version and temperate/cold climate version

A feature of these capacitors is the large value of the charges that they are able to accumulate on their plates. They are used in the manufacture of medical equipment, cash registers, in railway transport, special equipment, power supplies, laser systems, welding machines.

It is recommended to use this capacitor type as substitution for capacitors K50-18 type.

MAIN PARAMETERS

Name	Value
Rated voltage, V	3.2...250
Rated capacitance, μF	1 000...470 000
Capacitance tolerance (25 °C, 50 Hz), %	+50...-20;
Maximum operating temperature T_{env} , °C	+85 -for capacitros with OZH0.464.239 TU +70 -for capacitros with OZH0.464.224 TU
Minimal operating temperature T_{env} , °C	-25



- 1 – Screw B1M4-6qx6
- 2 – Explosion-proof valve
- 3 – Connecting strip for discharge

Connecting strip for discharge.

D, mm	A, mm	A ₁ , mm
40	18	10
50; 65	25	12

CAPACITORS OVERALL DIMENSIONS AND MASS

U_R, V	3.2	6.3	16	25	40	63	100	250
$C_R, \mu F$	<u>DxH, mm</u> mass, g							
1 000								<u>40x92</u> 250
2 200							<u>40x57</u> 140	
4 700						<u>40x52</u> 130	<u>40x97</u> 260	<u>65x142</u> 850
10 000					<u>40x62</u> 150	<u>40x87</u> 240	<u>50x122</u> 450	
15 000				<u>40x67</u> 160	<u>40x82</u> 230	<u>50x72</u> 270	<u>65x122</u> 735	
22 000			<u>40x57</u> 140		<u>50x72</u> 270	<u>50x97</u> 360		
33 000				<u>50x82</u> 300	<u>50x102</u> 380			
47 000					<u>65x87</u> 520			
68 000			<u>50x92</u> 340					
100 000		<u>50x82</u> 300	<u>50x122</u> 450	<u>65x132</u> 790				
220 000		<u>65x102</u> 615						
470 000	<u>65x142</u> 850							

CAPACITORS RELIABILITY

Modes and operating conditions	Minimal nonfailure operating time, t_λ , hours	Capacitor failure rate, λ , 1/hour, max
Maximum-permissible mode ($0.75U_R$, $T_{env}=85^\circ C$)	2 000	10^{-8}
Light mode (U_R , $T_{env}=70^\circ C$)	10 000	
Storageability Gamma-rated time of capacitor storageability T_{cy} at $y=99.5\%$, years, min	10 - for capacitors with OZH0.464.239 TU 15 - for capacitors with OZH0.464.224 TU	

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R, V	$R, \mu F$	$tg \delta, \%, 25 \text{ }^\circ C, 50 \text{ Hz, max}$	$I_{LEAK}, \mu A, 25 \text{ }^\circ C, \text{ after 5 min., max}$	$Z, Ohm, 25 \text{ }^\circ C, 10kHz, \text{ max}$
3.2	470 000	120	7 520	0.035
6.3	100 000	80	3 150	0.03
	220 000		6 930	0.02
16	22 000	60	1 760	0.05
	68 000		5 440	0.04
	100 000		8 000	0.03
25	15 000	40	1 875	0.04
	33 000		4 125	0.03
	100 000		12 500	0.02
40	10 000	35	2 000	0.05
	15 000		3 000	0.04
	22 000		4 400	0.03
	33 000		6 600	0.02
	47 000		9 400	0.02
63	4 700	25	1 480	0.06
	10 000		3 150	0.04
	15 000		4 725	0.03
	22 000		6 930	0.03
100	2 200	15	1 100	0.09
	4 700		2 350	0.05
	10 000		5 000	0.04
	15 700		7 500	0.035
250	1 000		2 500	0.15
	4 700		5 875	0.04

CODED SYMBOL FOR CAPACITORS (IDENTIFICATION NUMBER (PARTNUMBER))

CAPACITOR K50-37 – 3.2V – 470000MF (+50; –20)% – OZH0.464.239TU
(K50-37- A -4709S –D30H62-PET-0-239-UHL)

1	2	3	4	5	6	7	8	9
Capacitor K50-37	3.2V	470000 μ F	+50; –20%	D=65mm	H=142mm	PET-0	OZH0.464.239TU	UHL
K50-37	A	4709	S	D65	H142	PET-0	239	UHL

1. K50-37 - capacitor K50-37

2. Rated voltage code

Code	A	B	E	G	S	K	N	W
U_R, V	3.2	6.3	16	25	40	63	100	250

3. Nominal capacity code

Code	108	228	478	109	159	229
C_R, μF	1000	2200	4700	10000	15000	22000

Code	339	479	689	1009	2209	4709
C_R, μF	33000	47000	68000	100000	220000	470000

4. Capacity approval code

Code	S
Admittance	+50; –20%

5. Condenser diameter code

Code	D40	D50	D65
Diameter, mm	40	50	65

6. Condenser height code

Code	H52	H57	H62	H67	H72	H82	H87	H92	H97	H102	H122	H132	H142
Height, mm	52	57	62	67	72	82	87	92	97	102	122	132	142

7. Isolation code

Code	Decryption
PET-0	Uninsulated, packed in a box for manual assembly equipment

8. Code TU

Code	TU designation
239	OZH0.464.239TU

9. Climatic performance

Code	Decryption
B	Capacitors designed for indoor installation with requirements for resistance to high humidity 98% at 35°C
UHL	Capacitors are designed for interior installation with resistance requirements to high air humidity 98% at 25°C (climatic version UHL)

EXAMPLE OF REFERENCE DESIGNATION FOR ORDERING

CAPACITOR K50-37 – 250V – 1 000µF (+50 -20)% B OZH0.464.239 TU

CAPACITOR K50-37 – 63V – 10 000µF (+50 -20)% B OZH0.464.224 TU