

K50-17

ALUMINUM ELECTROLYTIC CAPACITOR

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TU 6270-006-07628635-2001

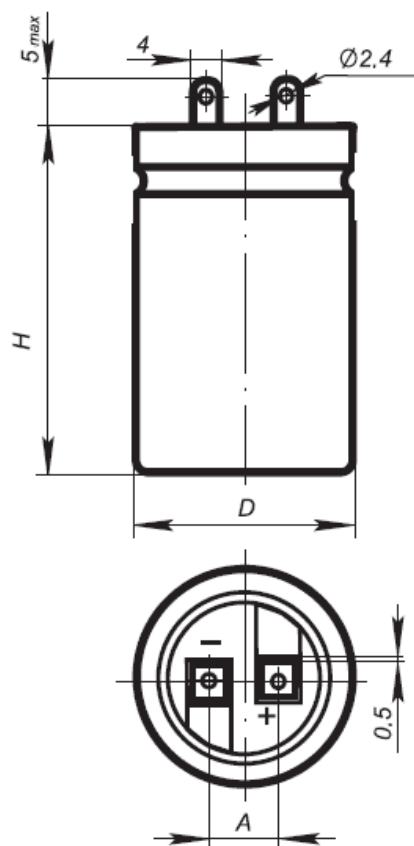
Capacitors is suitable for operation in pulse circuits and can be applied in laser as well as medical and welding equipment. Pulse frequency – 1/10 Hz max. Pulse quantity – 100 000 min

VARIANT 1

Capacitor is suitable for pulse (“charge-discharge”) operation as an accumulator of energy. It is available in all-climate and temperate/cold climate version. Non-isolated.

MAIN PARAMETERS

Name	Value
Rated voltage, V	300...500
Rated capacitance, μF	150...1 500
Capacitance tolerance (25 °C, 50 Hz), %	+50...-30; +50...-20; +50...-10; +30...-20; +30...-10; ± 30
Maximum operating temperature Tenv, °C	+55
Minimal operating temperature Tenv, °C	-10
“Charge-discharge” cycle frequency, max	1/30
Discharge resistance rating, min	0.45



CAPACITORS OVERALL DIMENSIONS AND MASS

U _R , V	C _R , µF	Capacitance tolerance (25 °C, 50 Hz), %	Dimensions, mm			Mass, g, max
			H	D	A	
300	400	+50...-30; +50...-20; +50...-10	60±2	28±0.5	10±0.5	70
	800		60±2	40±0.5	15±0.5	140
	1 000		118±2	40±0.5	15±0.5	270
	1 500	+50...-20	118±2	40±0.5	15±0.5	270
350	250	+30...-20	56±0.5	30±0.5	13±0.5	70
	620		60±2	40±0.5	15±0.5	150
	800	+30...-20; +30...-10; ±30	73±2	40±0.5	15±0.5	180
	1 500		123±2	40±0.5	10±0.5	300
400	200	+50...-30; +50...-20; +50...-10	48±2	28±0.5	10±0.5	60
	500		105±2	28±0.5	10±0.5	120
	1 000		118±2	40±0.5	15±0.5	270
500	200		85±2	28±0.5	10±0.5	90

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U_R, V	$C_R, \mu F$	$tg \delta, \%, 25 \text{ }^\circ C, 50 \text{ Hz, max}$	$I_{LEAK}, \mu A, 25 \text{ }^\circ C, \text{ after } 5 \text{ min., max}$	$R_{inner}, Ohm, 25 \text{ }^\circ C, 20 \text{ kHz, max}$
300	400	20	1	0.5
	800		1.2	
	1 000		2	
	1 500		2.2	
350	250	15	1.5	0.15
	620			
	800		2	
	1 500		3	
400	200	15	1	0.5
	500			
	1 000			
500	200	15	1	0.5

CAPACITORS RELIABILITY

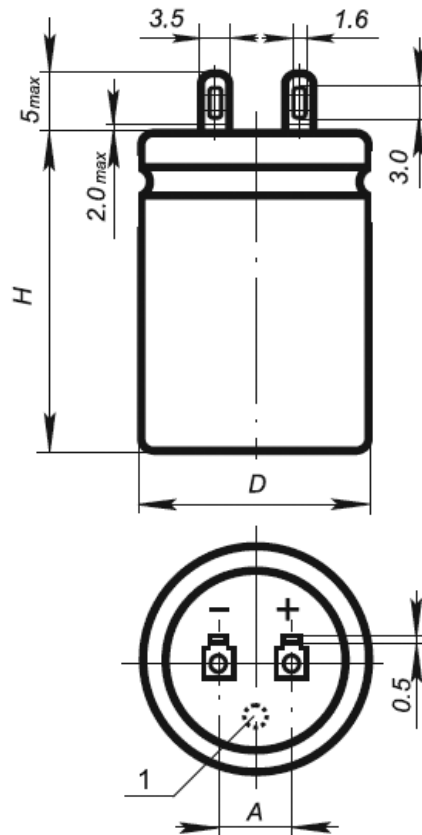
Modes and operating conditions	Minimal nonfailure operating time, t_λ , hours	Capacitor failure rate, λ , 1/hour, max
Maximum-permissible mode ($U_R, T_{env}=55 \text{ }^\circ C$)	100 000	3×10^{-7}
Storageability Gamma-rated time of capacitor storageability T_{cy} at $y=99.5\%$, years, min	10	

VARIANT 2

Capacitor is suitable for pulse ("charge-discharge") operation as an accumulator of energy. It is available in temperate/cold climate version. Isolated.

MAIN PARAMETERS

Name	Value
Rated voltage, V	400
Rated capacitance, μF	150...820
Capacitance tolerance (25 °C, 50 Hz), %	+30...-10
Maximum operating temperature T_{env} , °C	+55
Minimal operating temperature T_{env} , °C	-10
"Charge-discharge" cycle frequency, max	1/10
Discharge resistance rating, min	0.45



1 – Explosion-proof valve

CAPACITORS OVERALL DIMENSIONS AND MASS

U _R , V	C _R , μF	Capacitance tolerance (25 °C, 50 Hz), %	Dimensions, mm			Mass, g, max
			H	D	A	
400	150	+30...-10	38±1.25	21±1.05	7.5±0.45	30
	270		46±1.25	24±1.05		40
	560		53±1.5	32±0.8	12.5±0.55	80
	820		78±1.5	32±0.8		120

CAPACITOR ELECTRIC PARAMETERS VALUE WHEN DELIVERED

U _R , V	C _R , μF	tg δ, %, 25 °C, 50 Hz, max	I _{LEAK} , μA, 25 °C, after 5 min., max	R _{inner} , Ohm, 25 °C, 20 kHz, max
400	150	20	1	0.5
	270		1.5	
	560		1.5	
	820		2	

CAPACITORS RELIABILITY

Modes and operating conditions	Minimal nonfailure operating time, t _λ , hours	Capacitor failure rate, λ, 1/hour, max
Maximum-permissible mode (U _R , T _{env} =55°C)	10 000	3×10 ⁻⁷
Storageability Gamma-rated time of capacitor storageability T _{cy} at γ=99.5%, years, min	10	

CODED SYMBOL FOR CAPACITORS (IDENTIFICATION NUMBER (PARTNUMBER))

CAPACITOR K50-17 - 300V - 400MF (+50; -20)% - TU6270-006-07628635
(K50-17A-T00-407S-D28H60-PET-0-635-2001-UHL)

1	1.1	2	3	4	5	6	7	8	9
Capacitor K50-17	Variant 1	300V	400 μ F	(+50; -20)%	D=28mm	H=60mm	PET-0	TU6270-006-07628635-2001	UHL
K50-17	A	T00	407	S	D28	H60	PET-0	635-2001	UHL

1. K50-17 - capacitor K50-17

1.1 Design option

Code	View
A	Variant 1

2. Rated voltage code

Code	T00	T	Y	V
U _R , V	300	350	400	500

3. Nominal capacity code

Code	207	257	407	507	627	807	108	158
C _R , μ F	200	250	400	500	620	800	1000	1500

4. Capacity approval code

Code	T	S	R	N	U	Q
Admittance, %	+50; -10	+50; -20	+50; -30	+30; -30	+30; -20	+30; -10

5. Condenser diameter code

Code	D28	D30	D40
Diameter, mm	28	30	40

6. Condenser height code

Code	H48	H56	H60	H73	H85	H105	H118	H123
Height, mm	48	56	60	73	85	105	118	123

7. Isolation code

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

8. Code TU

Code	TU designation
635-2001	TU6270-006-07628635-2001

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)

**CAPACITOR K50-17 - 400V - 150MF (+30; -10)% - I - TU6270-006-07628635
(K50-17B- Y -157Q -D21H38-PET-0-635-2001- UHL)**

1	1.1	2	3	4	5	6	7	8	9
Capacitor K50-17	Variant 2	400V	150 μ F	(+30; -10)%	D=21mm	H=38mm	PET	TU6270-006-07628635-2001	UHL
K50-17	B	Y	157	Q	D21	H38	PET	635-2001	UHL

1. K50-17 - capacitor K50-17

1.1 Design variant

Code	View
B	Variant 2

2. Rated voltage code

Code	Y
U _R , V	400

3. Nominal capacity code

Code	157	277	567	827
C _R , μ F	150	270	560	820

4. Capacity approval code

Code	Q
Admittance	(+30; -10)%

5. Condenser diameter code

Code	D21	D24	D32
Diameter, mm	21	24	32

6. Condenser height code

Code	H38	H46	H53	H78
Height, mm	38	46	53	78

7. Isolation code

Code	Decryption
PET	Isolated, packed in box for hand assembly equipment

8. Code TU

Code	TU designation
635-2001	TU6270-006-07628635-2001

9. Climatic performance

Code	Decryption
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 K50-17 – 400V – 500 μ F (+50 -10)% B TU 6270-006-07628635-2001

CAPACITOR K50-17 – 400V – 500 μ F (+50 -30)% I TU 6270-006-07628635-2001

CAPACITOR K50-17 – 400V – 560 μ F (+30 -10)% TU 6270-006-07628635-2001