



Aluminum Electrolytic Capacitors with Screw Terminals

Series/Type: B41550, B41570

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B41570E9688Q008		2017-11-17	2018-11-17	2019-05-17
B41570E9688Q000		2017-11-17	2018-11-17	2019-05-17
B41570E9478Q008		2017-11-17	2018-11-17	2019-05-17



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B41570E9478Q000		2017-11-17	2018-11-17	2019-05-17
B41570E9159Q008		2017-11-17	2018-11-17	2019-05-17
B41570E9159Q000		2017-11-17	2018-11-17	2019-05-17
B41570E9109Q008		2017-11-17	2018-11-17	2019-05-17
B41570E9109Q000		2017-11-17	2018-11-17	2019-05-17
B41570E8339Q008		2017-11-17	2018-11-17	2019-05-17
B41570E8339Q000		2017-11-17	2018-11-17	2019-05-17
B41570E8229Q008		2017-11-17	2018-11-17	2019-05-17
B41570E8229Q000		2017-11-17	2018-11-17	2019-05-17
B41570E8159Q008		2017-11-17	2018-11-17	2019-05-17
B41570E8159Q000		2017-11-17	2018-11-17	2019-05-17
B41570E8109Q008		2017-11-17	2018-11-17	2019-05-17
B41570E8109Q000		2017-11-17	2018-11-17	2019-05-17
B41570E7689Q008		2017-11-17	2018-11-17	2019-05-17
B41570E7689Q000		2017-11-17	2018-11-17	2019-05-17
B41570E7479Q008		2017-11-17	2018-11-17	2019-05-17
B41570E7479Q000		2017-11-17	2018-11-17	2019-05-17
B41570E7339Q008		2017-11-17	2018-11-17	2019-05-17
B41570E7339Q000		2017-11-17	2018-11-17	2019-05-17
B41570E7229Q008		2017-11-17	2018-11-17	2019-05-17
B41570E7229Q000		2017-11-17	2018-11-17	2019-05-17
B41570E5689Q008		2017-11-17	2018-11-17	2019-05-17
B41570E5689Q000		2017-11-17	2018-11-17	2019-05-17
B41570E5479Q008		2017-11-17	2018-11-17	2019-05-17
B41570E5479Q000		2017-11-17	2018-11-17	2019-05-17
B41570E5339Q008		2017-11-17	2018-11-17	2019-05-17
B41570E5339Q000		2017-11-17	2018-11-17	2019-05-17
B41570E5100Q008		2017-11-17	2018-11-17	2019-05-17
B41570E5100Q000		2017-11-17	2018-11-17	2019-05-17
B41570E4689Q008		2017-11-17	2018-11-17	2019-05-17
B41570E4689Q000		2017-11-17	2018-11-17	2019-05-17
B41570E4479Q008		2017-11-17	2018-11-17	2019-05-17
B41570E4479Q000		2017-11-17	2018-11-17	2019-05-17
B41570E4150Q008		2017-11-17	2018-11-17	2019-05-17
B41570E4150Q000		2017-11-17	2018-11-17	2019-05-17
B41570E4100Q008		2017-11-17	2018-11-17	2019-05-17
B41570E4100Q000		2017-11-17	2018-11-17	2019-05-17
B41570A9339Q008		2017-11-17	2018-11-17	2019-05-17



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B41570A9339Q000		2017-11-17	2018-11-17	2019-05-17
B41570A9229Q008		2017-11-17	2018-11-17	2019-05-17
B41570A9229Q000		2017-11-17	2018-11-17	2019-05-17
B41570A8479Q008		2017-11-17	2018-11-17	2019-05-17
B41570A8479Q000		2017-11-17	2018-11-17	2019-05-17
B41570A7100Q008		2017-11-17	2018-11-17	2019-05-17
B41570A7100Q000		2017-11-17	2018-11-17	2019-05-17
B41570A5150Q008		2017-11-17	2018-11-17	2019-05-17
B41570A5150Q000		2017-11-17	2018-11-17	2019-05-17
B41570A4220Q008		2017-11-17	2018-11-17	2019-05-17
B41570A4220Q000		2017-11-17	2018-11-17	2019-05-17
B41550E9688Q000		2017-11-17	2018-11-17	2019-05-17
B41550E9478Q000		2017-11-17	2018-11-17	2019-05-17
B41550E9159Q000		2017-11-17	2018-11-17	2019-05-17
B41550E9109Q000		2017-11-17	2018-11-17	2019-05-17
B41550E8339Q000		2017-11-17	2018-11-17	2019-05-17
B41550E8229Q000		2017-11-17	2018-11-17	2019-05-17
B41550E8159Q000		2017-11-17	2018-11-17	2019-05-17
B41550E8109Q000		2017-11-17	2018-11-17	2019-05-17
B41550E7689Q000		2017-11-17	2018-11-17	2019-05-17
B41550E7479Q000		2017-11-17	2018-11-17	2019-05-17
B41550E7339Q000		2017-11-17	2018-11-17	2019-05-17
B41550E7229Q000		2017-11-17	2018-11-17	2019-05-17
B41550E5689Q000		2017-11-17	2018-11-17	2019-05-17
B41550E5479Q000		2017-11-17	2018-11-17	2019-05-17
B41550E5339Q000		2017-11-17	2018-11-17	2019-05-17
B41550E5100Q000		2017-11-17	2018-11-17	2019-05-17
B41550E4689Q000		2017-11-17	2018-11-17	2019-05-17
B41550E4479Q000		2017-11-17	2018-11-17	2019-05-17
B41550E4150Q000		2017-11-17	2018-11-17	2019-05-17
B41550E4100Q000		2017-11-17	2018-11-17	2019-05-17
B41550A9339Q000		2017-11-17	2018-11-17	2019-05-17
B41550A9229Q000		2017-11-17	2018-11-17	2019-05-17
B41550A8479Q000		2017-11-17	2018-11-17	2019-05-17
B41550A7100Q000		2017-11-17	2018-11-17	2019-05-17
B41550A5150Q000		2017-11-17	2018-11-17	2019-05-17
B41550A4220Q000		2017-11-17	2018-11-17	2019-05-17

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

Aluminum Electrolytic Capacitors with Screw Terminals

SIKOREL – 105 °C

Long-life grade capacitors

Applications

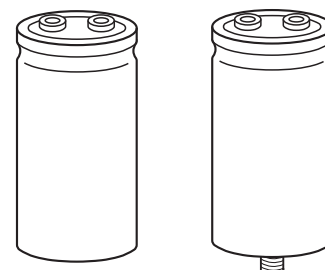
- Highly professional power supplies

Features

- Outstanding reliability
- Operation at temperatures up to 125 °C permissible without insulating sleeve¹⁾
- High ripple current capability
- Long useful life
- SIKOREL design – storage for up to 10 years at a temperature of up to 35 °C
- All-welded construction ensures reliable electrical contact
- RoHS-compatible

Construction

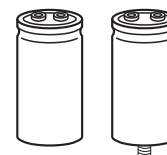
- Charge-discharge proof, polar
- Aluminum case, insulated with PVC sleeve
- Version with PET insulation available upon request
- Poles with screw terminal connections
- Mounting with ring clips, clamps or threaded stud
- Types with threaded stud are available with or without insulated base



B41550

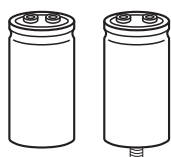
B41570

1) For $\varnothing = 51.6$ mm: 2500 h, for $\varnothing \geq 64.3$ mm: 5000 h


Specifications and characteristics in brief

Rated voltage V_R	16 ... 100 V DC			
Surge voltage V_S	$1.15 \cdot V_R$			
Rated capacitance C_R	4700 ... 220000 μF			
Capacitance tolerance	–10/+30% \triangleq Q			
Leakage current I_{leak} (20 °C, 5 min)	$I_{\text{leak}} \leq 0.018 \mu\text{A} \cdot \left(\frac{C_R}{\mu\text{F}} \cdot \frac{V_R}{\text{V}} \right)^{0.85} + 4 \mu\text{A}$			
Self-inductance ESL	d = 51.6 mm: approx. 15 nH d \geq 64.3 mm: approx. 20 nH			
Useful life ¹⁾	d = 51.6 mm	d \geq 64.3 mm	Requirements: $ \Delta C/C \leq 45\%$ of initial value ESR ≤ 3 times initial specified limit $I_{\text{leak}} \leq$ initial specified limit	
	105 °C; V_R ; $I_{AC,R}$	> 10000 h		> 20000 h
	85 °C; V_R ; $I_{AC,max}$	> 15000 h		> 25000 h
	40 °C; V_R ; $2.4 \cdot I_{AC,R}$	> 200000 h		–
	40 °C; V_R ; $2.7 \cdot I_{AC,R}$	–		> 200000 h
Voltage endurance test 105 °C; V_R ; $I_{AC,R}$	5000 h		Post test requirements: $ \Delta C/C \leq \pm 15\%$ of initial value ESR ≤ 1.3 times initial specified limit $I_{\text{leak}} \leq$ initial specified limit	
	Vibration resistance test			
To IEC 60068-2-6, test Fc: Frequency range 10 ... 55 Hz, displacement amplitude 0.75 mm, acceleration max. 10 g, duration 3 \times 2 h. Capacitor mounted by its body which is rigidly clamped to the work surface.				
IEC climatic category	To IEC 60068-1: 55/105/56 (–55 °C/+105 °C/56 days damp heat test)			
Detail specification	Similar to CECC 30301-804			
Sectional specification	IEC 60384-4			

1) Refer to chapter "General technical information, 5 Useful life" on how to interpret useful life.



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SIKOREL – 105 °C

Ripple current capability

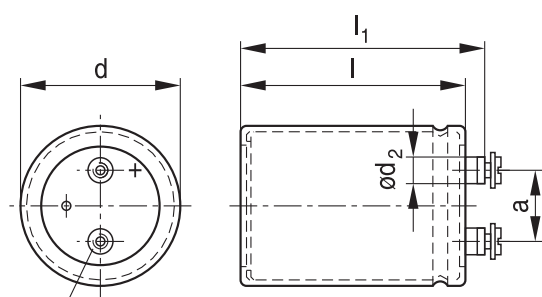
Due to the ripple current capability of the contact elements, the following current upper limits must not be exceeded:

Capacitor diameter	51.6 mm	> 51.6 mm
$I_{AC,max}$	30 A	40 A

Dimensional drawings

B41550

Ring clip/clamp mounting



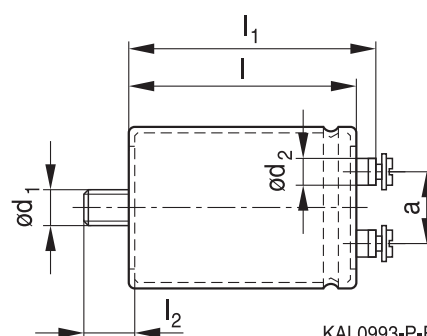
Min. reach of screw = 9.5 mm

Positive pole marking: +

KAL1320-M-E

B41570

Threaded stud mounting



KAL0993-P-E

For standard types with threaded stud the base is not insulated. Also refer to the mounting instructions in chapter "Capacitors with screw terminals – Accessories".

Dimensions and weights

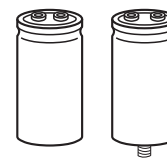
Ter- minal	Dimensions (mm) with insulating sleeve							Approx. weight (g)
	d	$l \pm 1$	$l_1 \pm 1$	$l_2 +0/-1$	d_1	$d_2 \text{ max.}$	$a +0.2/-0.4$	
M5	$51.6 +0.5/-1$	80.7	87.0	17	M12	8.2	22.2	220
M5	$64.3 +0.5/-1$	80.7	87.0	17	M12	8.2	28.5	370
M5	$64.3 +0.5/-1$	105.7	112.0	17	M12	8.2	28.5	440
M5	$76.9 +0.5/-1$	105.7	112.0	17	M12	8.2	31.7	620
M5	$76.9 +0.5/-1$	143.2	149.5	17	M12	8.2	31.7	840

Tolerances of terminal thread respectively stud thread:

- Terminal thread M5: 6H
- Thread of stud M12: 6g

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SIKOREL – 105 °C

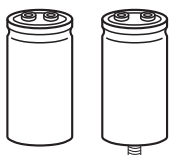


Packing

Capacitor diameter d (mm)	Length l (mm)	Packing units (pcs.)
51.6	all	36
64.3	all	25
76.9	all	16



For ecological reasons the packing is pure cardboard.



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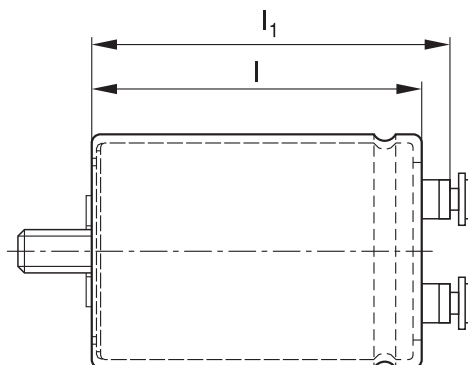
SIKOREL – 105 °C

Special design

■ Insulated base

Length l and l_1 increase by +0.5 mm for types with threaded stud and insulated base. All other dimensions of the capacitor are identical with those of standard capacitors of this series.

Please refer to the table "Dimensions and weights".



KAL1627-T

Design options

Design options	Identification in third block of ordering code	Remark
Standard	Q000	Standard version without threaded stud: fully insulated with PVC Standard version with threaded stud: insulated with PVC sleeve, base not insulated
Insulated base	Q008	For capacitors with threaded stud, fully insulated with PVC sleeve and PP disc

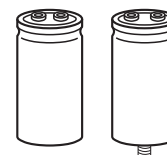
Accessories

The following items are included in the delivery package, but are not fastened to the capacitors:

	Thread	Toothed washers	Screws/nuts	Maximum torque
For terminals	M5	A 5.1 DIN 6797	DIN 7985 / ISO 7045-M5 × 10-5.6-Z	2 Nm
For mounting	M12	J 12.5 DIN 6797	Hex nut BM 12 DIN 439	10 Nm

The following items must be ordered separately. For details, refer to chapter "Capacitors with screw terminals – Accessories".

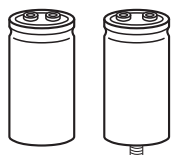
Item	Type
Ring clips	B44030
Clamps for capacitors with $d \geq 64.3$ mm	B44030
Insulating parts	B44020



Overview of available types

The capacitance and voltage ratings listed above are available in different case sizes upon request. Other voltage and capacitance ratings are also available upon request.

V_R (V DC)	16	25	40	63	100
	Case dimensions $d \times l$ (mm)				
C_R (μ F)					
4700					51.6 × 80.7
6800					64.3 × 80.7
10000				51.6 × 80.7	64.3 × 80.7
15000				64.3 × 80.7	64.3 × 105.7
22000			51.6 × 80.7	64.3 × 105.7	76.9 × 105.7
33000		51.6 × 80.7	64.3 × 80.7	76.9 × 105.7	76.9 × 143.2
47000	51.6 × 80.7	64.3 × 80.7	64.3 × 105.7	76.9 × 143.2	
68000	64.3 × 80.7	64.3 × 105.7	76.9 × 105.7		
100000	64.3 × 105.7	76.9 × 105.7	76.9 × 143.2		
150000	76.9 × 105.7	76.9 × 143.2			
220000	76.9 × 143.2				


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SIKOREL – 105 °C
Technical data and ordering codes

C_R 100 Hz 20 °C μF	Case dimensions $d \times l$ mm	ESR_{typ} 100 Hz 20 °C m Ω	ESR_{max} 100 Hz 20 °C m Ω	Z_{max} 10 kHz 20 °C m Ω	$I_{\text{AC,max}}$ 100 Hz 40 °C A	$I_{\text{AC,max}}$ 100 Hz 85 °C A	$I_{\text{AC,R}}$ 100 Hz 105 °C A	Ordering code (composition see below)
$V_R = 16 \text{ V DC}$								
47000	51.6 × 80.7	5.0	13	13	30	30	16	B415*0E4479Q00#
68000	64.3 × 80.7	5.0	13	13	40	38	17	B415*0E4689Q00#
100000	64.3 × 105.7	4.0	10	9.0	40	39	19	B415*0E4100Q00#
150000	76.9 × 105.7	4.0	10	10	40	40	22	B415*0E4150Q00#
220000	76.9 × 143.2	4.0	8.0	7.0	40	40	26	B415*0A4220Q00#
$V_R = 25 \text{ V DC}$								
33000	51.6 × 80.7	6.0	13	12	30	29	15	B415*0E5339Q00#
47000	64.3 × 80.7	5.0	13	11	40	34	17	B415*0E5479Q00#
68000	64.3 × 105.7	5.0	11	9.0	40	35	17	B415*0E5689Q00#
100000	76.9 × 105.7	4.0	9.0	8.0	40	39	21	B415*0E5100Q00#
150000	76.9 × 143.2	4.0	7.0	6.0	40	40	26	B415*0A5150Q00#
$V_R = 40 \text{ V DC}$								
22000	51.6 × 80.7	6.0	13	13	30	29	15	B415*0E7229Q00#
33000	64.3 × 80.7	5.0	12	12	40	34	17	B415*0E7339Q00#
47000	64.3 × 105.7	5.0	8.0	8.0	40	35	17	B415*0E7479Q00#
68000	76.9 × 105.7	4.0	9.0	7.0	40	39	21	B415*0E7689Q00#
100000	76.9 × 143.2	4.0	7.0	6.0	40	40	26	B415*0A7100Q00#
$V_R = 63 \text{ V DC}$								
10000	51.6 × 80.7	7.0	18	14	30	27	13	B415*0E8109Q00#
15000	64.3 × 80.7	6.0	13	11	40	31	15	B415*0E8159Q00#
22000	64.3 × 105.7	5.0	10	9.0	40	35	17	B415*0E8229Q00#
33000	76.9 × 105.7	4.0	8.0	8.0	40	39	21	B415*0E8339Q00#
47000	76.9 × 143.2	3.0	7.0	6.0	40	40	26	B415*0A8479Q00#
$V_R = 100 \text{ V DC}$								
4700	51.6 × 80.7	15	29	20	28	20	10	B415*0E9478Q00#
6800	64.3 × 80.7	10	20	17	36	26	13	B415*0E9688Q00#
10000	64.3 × 80.7	8.0	15	14	40	32	16	B415*0E9109Q00#
15000	64.3 × 105.7	7.0	13	11	40	36	18	B415*0E9159Q00#
22000	76.9 × 105.7	6.0	11	9.0	40	38	19	B415*0A9229Q00#
33000	76.9 × 143.2	5.0	9.0	8.0	40	40	23	B415*0A9339Q00#

Composition of ordering code

* = Mounting style

5 = for capacitors with ring clip/clamp mounting

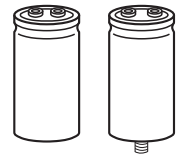
7 = for capacitors with threaded stud

= Design

0 = standard

8 = insulated base

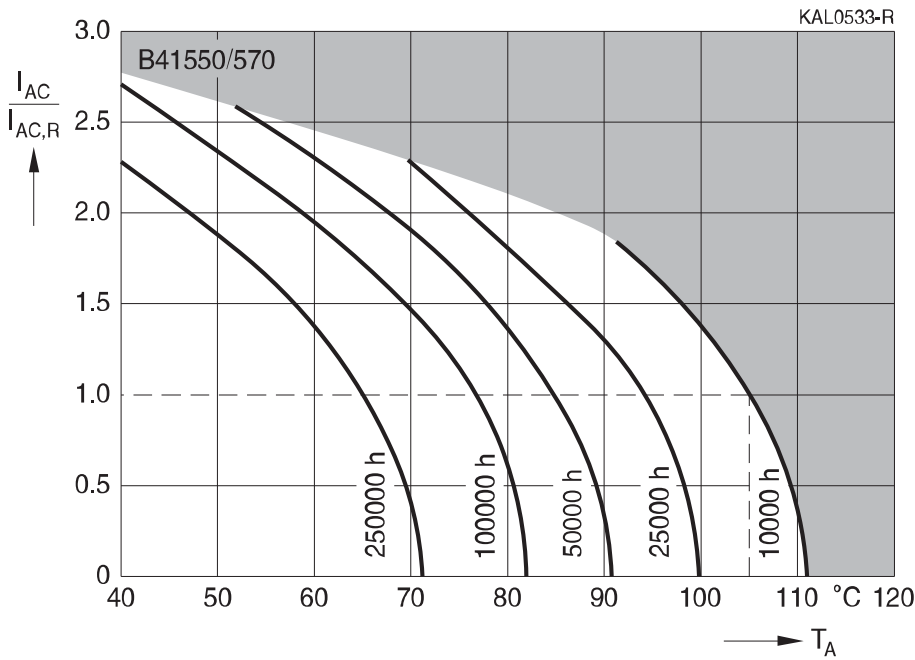
For details refer to "Design options" on page 6.



Useful life¹⁾

depending on ambient temperature T_A under ripple current operating conditions

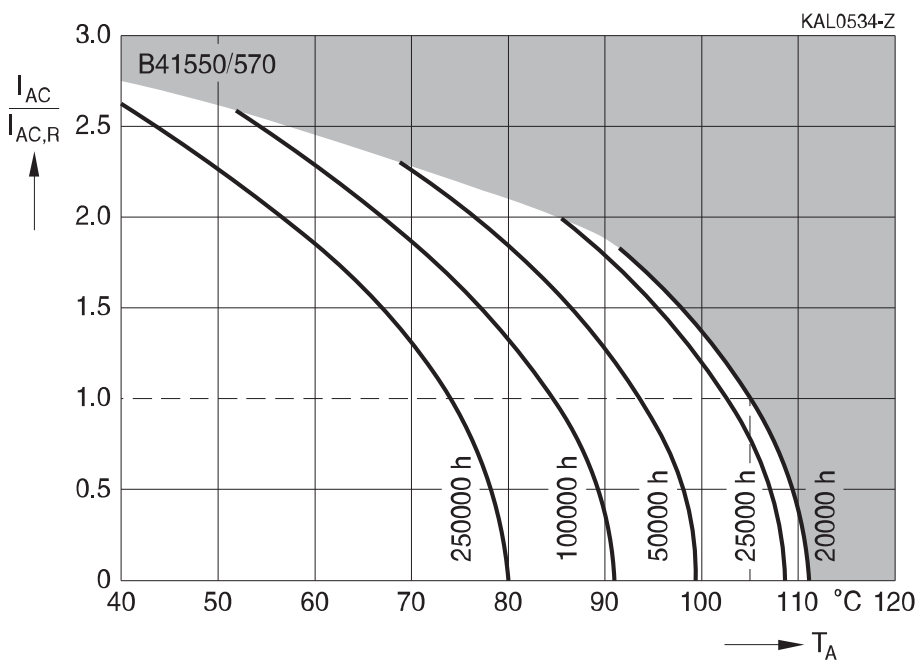
$d = 51.6 \text{ mm}$



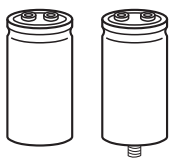
Useful life¹⁾

depending on ambient temperature T_A under ripple current operating conditions

$d \geq 64.3 \text{ mm}$



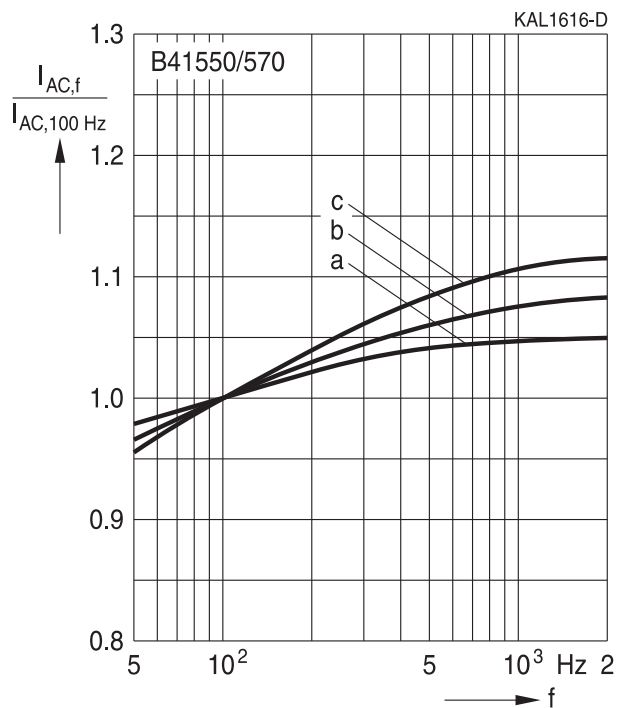
1) Refer to chapter "General technical information, 5 Useful life" on how to interpret useful life.



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SIKOREL – 105 °C

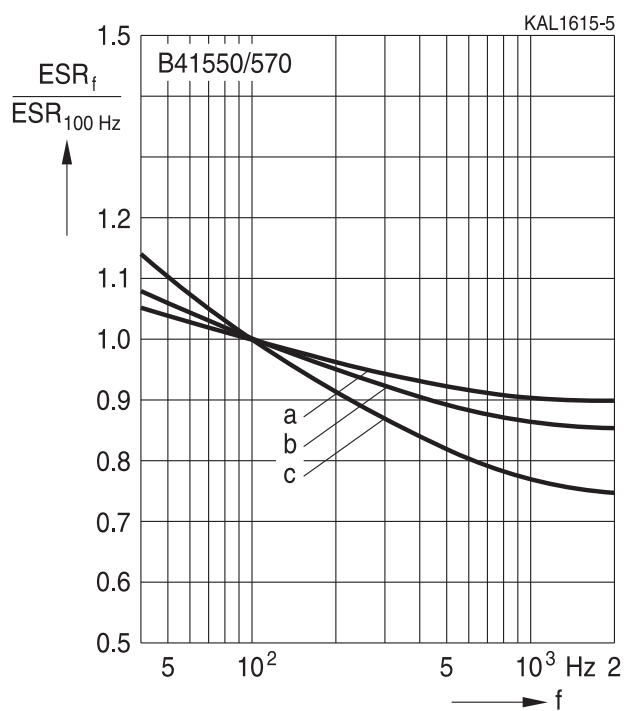
Frequency factor of permissible ripple current I_{AC} versus frequency f



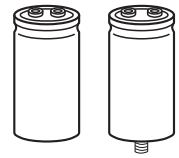
V_R (V DC)	16; 25	40	63	100
$d = 51.6$ mm	a	b	c	c
$d = 64.3$ mm	a	a	c	c
$d = 76.9$ mm	a	a	b	c

Frequency characteristics of ESR

Typical behavior

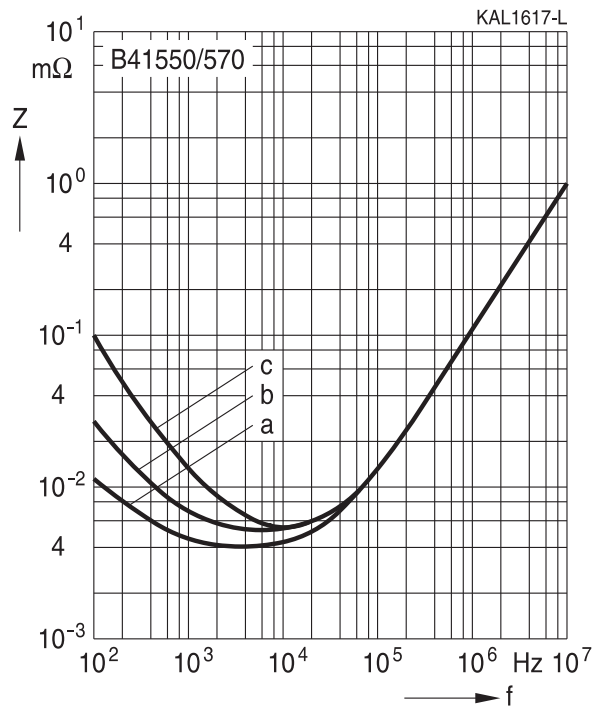


V_R (V DC)	16; 25	40	63	100
$d = 51.6$ mm	a	b	c	c
$d = 64.3$ mm	a	a	c	c
$d = 76.9$ mm	a	a	b	c

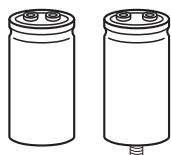


Impedance Z versus frequency f

Typical behavior at 20 °C



C_R μF	V_R V DC	d mm	Curve
150000	16	76.9	a
68000	40	76.9	b
15000	100	64.3	c



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SIKOREL – 105 °C

Cautions and warnings

Personal safety

The electrolytes used by EPCOS have been optimized both with a view to the intended application and with regard to health and environmental compatibility. They do not contain any solvents that are detrimental to health, e.g. dimethyl formamide (DMF) or dimethyl acetamide (DMAC).

Furthermore, some of the high-voltage electrolytes used by EPCOS are self-extinguishing.

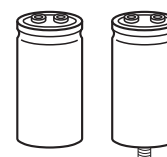
As far as possible, EPCOS does not use any dangerous chemicals or compounds to produce operating electrolytes, although in exceptional cases, such materials must be used in order to achieve specific physical and electrical properties because no alternative materials are currently known. We do, however, restrict the amount of dangerous materials used in our products to an absolute minimum.

Materials and chemicals used in EPCOS aluminum electrolytic capacitors are continuously adapted in compliance with the EPCOS Corporate Environmental Policy and the latest EU regulations and guidelines such as RoHS, REACH/SVHC, GADSL, and ELV.

MDS (Material Data Sheets) are available on the EPCOS website for all types listed in the data book. MDS for customer specific capacitors are available upon request.

MSDS (Material Safety Data Sheets) are available for all of our electrolytes upon request.

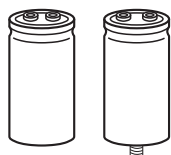
Nevertheless, the following rules should be observed when handling aluminum electrolytic capacitors: No electrolyte should come into contact with eyes or skin. If electrolyte does come into contact with the skin, wash the affected areas immediately with running water. If the eyes are affected, rinse them for 10 minutes with plenty of water. If symptoms persist, seek medical treatment. Avoid inhaling electrolyte vapor or mists. Workplaces and other affected areas should be well ventilated. Clothing that has been contaminated by electrolyte must be changed and rinsed in water.



Product safety

The table below summarizes the safety instructions that must be observed without fail. A detailed description can be found in the relevant sections of chapter "General technical information".

Topic	Safety information	Reference chapter "General technical information"
Polarity	Make sure that polar capacitors are connected with the right polarity.	1 "Basic construction of aluminum electrolytic capacitors"
Reverse voltage	Voltages of opposite polarity should be prevented by connecting a diode.	3.1.6 "Reverse voltage"
Mounting position of screw-terminal capacitors	Screw terminal capacitors must not be mounted with terminals facing down unless otherwise specified.	11.1. "Mounting positions of capacitors with screw terminals"
Robustness of terminals	The following maximum tightening torques must not be exceeded when connecting screw terminals: M5: 2.5 Nm M6: 4.0 Nm	11.3 "Mounting torques"
Mounting of single-ended capacitors	The internal structure of single-ended capacitors might be damaged if excessive force is applied to the lead wires. Avoid any compressive, tensile or flexural stress. Do not move the capacitor after soldering to PC board. Do not pick up the PC board by the soldered capacitor. Do not insert the capacitor on the PC board with a hole space different to the lead space specified.	11.4 "Mounting considerations for single-ended capacitors"
Soldering	Do not exceed the specified time or temperature limits during soldering.	11.5 "Soldering"
Soldering, cleaning agents	Do not allow halogenated hydrocarbons to come into contact with aluminum electrolytic capacitors.	11.6 "Cleaning agents"
Upper category temperature	Do not exceed the upper category temperature.	7.2 "Maximum permissible operating temperature"
Passive flammability	Avoid external energy, e.g. fire.	8.1 "Passive flammability"



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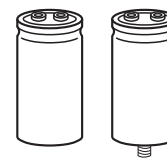
SIKOREL – 105 °C

Topic	Safety information	Reference chapter "General technical information"
Active flammability	Avoid overload of the capacitors.	8.2 "Active flammability"
Maintenance	Make periodic inspections of the capacitors. Before the inspection, make sure that the power supply is turned off and carefully discharge the capacitors. Do not apply excessive mechanical stress to the capacitor terminals when mounting.	10 "Maintenance"
Storage	Do not store capacitors at high temperatures or high humidity. Capacitors should be stored at +5 to +35 °C and a relative humidity of ≤ 75%.	7.3 "Shelf life and storage conditions"
		Reference chapter "Capacitors with screw terminals"
Breakdown strength of insulating sleeves	Do not damage the insulating sleeve, especially when ring clips are used for mounting.	"Screw terminals – accessories"

Display of ordering codes for EPCOS products

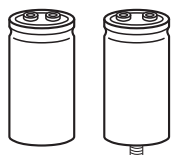
The ordering code for one and the same product can be represented differently in data sheets, data books, other publications and the website of EPCOS, or in order-related documents such as shipping notes, order confirmations and product labels. The varying representations of the ordering codes are due to different processes employed and do not affect the specifications of the respective products.

Detailed information can be found on the Internet under www.epcos.com/orderingcodes.



Symbols and terms

Symbol	English	German
C	Capacitance	Kapazität
C_R	Rated capacitance	Nennkapazität
C_S	Series capacitance	Serienkapazität
$C_{S,T}$	Series capacitance at temperature T	Serienkapazität bei Temperatur T
C_f	Capacitance at frequency f	Kapazität bei Frequenz f
d	Case diameter, nominal dimension	Gehäusedurchmesser, Nennmaß
d_{max}	Maximum case diameter	Maximaler Gehäusedurchmesser
ESL	Self-inductance	Eigeninduktivität
ESR	Equivalent series resistance	Ersatzserienwiderstand
ESR_f	Equivalent series resistance at frequency f	Ersatzserienwiderstand bei Frequenz f
ESR_T	Equivalent series resistance at temperature T	Ersatzserienwiderstand bei Temperatur T
f	Frequency	Frequenz
I	Current	Strom
I_{AC}	Alternating current (ripple current)	Wechselstrom
$I_{AC,RMS}$	Root-mean-square value of alternating current	Wechselstrom, Effektivwert
$I_{AC,f}$	Ripple current at frequency f	Wechselstrom bei Frequenz f
$I_{AC,max}$	Maximum permissible ripple current	Maximal zulässiger Wechselstrom
$I_{AC,R}$	Rated ripple current	Nennwechselstrom
I_{leak}	Leakage current	Reststrom
$I_{leak,op}$	Operating leakage current	Betriebsreststrom
l	Case length, nominal dimension	Gehäuselänge, Nennmaß
l_{max}	Maximum case length (without terminals and mounting stud)	Maximale Gehäuselänge (ohne Anschlüsse und Gewindebolzen)
R	Resistance	Widerstand
R_{ins}	Insulation resistance	Isolationswiderstand
R_{symm}	Balancing resistance	Symmetrierwiderstand
T	Temperature	Temperatur
ΔT	Temperature difference	Temperaturdifferenz
T_A	Ambient temperature	Umgebungstemperatur
T_C	Case temperature	Gehäusetemperatur
T_B	Capacitor base temperature	Temperatur des Gehäusebodens
t	Time	Zeit
Δt	Period	Zeitraum
t_b	Service life (operating hours)	Brauchbarkeitsdauer (Betriebszeit)



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Symbol	English	German
V	Voltage	Spannung
V_F	Forming voltage	Formierspannung
V_{op}	Operating voltage	Betriebsspannung
V_R	Rated voltage, DC voltage	Nennspannung, Gleichspannung
V_S	Surge voltage	Spitzenspannung
X_C	Capacitive reactance	Kapazitiver Blindwiderstand
X_L	Inductive reactance	Induktiver Blindwiderstand
Z	Impedance	Scheinwiderstand
Z_T	Impedance at temperature T	Scheinwiderstand bei Temperatur T
$\tan \delta$	Dissipation factor	Verlustfaktor
λ	Failure rate	Ausfallrate
ϵ_0	Absolute permittivity	Elektrische Feldkonstante
ϵ_r	Relative permittivity	Dielektrizitätszahl
ω	Angular velocity; $2 \cdot \pi \cdot f$	Kreisfrequenz; $2 \cdot \pi \cdot f$

Note

All dimensions are given in mm.

Important notes

The following applies to all products named in this publication:

1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or lifesaving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
3. **The warnings, cautions and product-specific notes must be observed.**
4. In order to satisfy certain technical requirements, **some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous)**. Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
5. We constantly strive to improve our products. Consequently, **the products described in this publication may change from time to time**. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also **reserve the right to discontinue production and delivery of products**. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
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Important notes

7. The trade names EPCOS, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CSSP, CTVS, DeltaCap, DigiSiMic, DSSP, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PQSine, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SIP5D, SIP5K, TFAP, ThermoFuse, WindCap are **trademarks registered or pending** in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.

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