



Aluminum electrolytic capacitors

Capacitors with screw terminals

Series/Type: B43455, B43457

Date: November 2008

Long-life grade capacitors

Applications

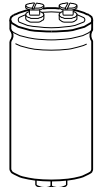
- Frequency converters
- Uninterruptible power supplies
- Professional power supplies

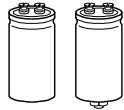
Features

- Long useful life
- All-welded construction ensures reliable electrical contact
- Version with optimized construction for base cooling (heat sink mounting) available
- Version with low-inductance design available
- Self-extinguishing electrolyte
- RoHS-compatible

Construction

- Charge-discharge proof, polar
- Aluminum case with insulating sleeve
- Poles with screw terminal connections
- Mounting with ring clips, clamps or threaded stud
- The bases of types with threaded stud and $d \leq 76.9$ mm are not insulated, types with $d = 91$ mm have fully insulated bases


B43455

B43457



Specifications and characteristics in brief

Rated voltage V_R	350 ... 450 V DC												
Surge voltage V_S	$1.10 \cdot V_R$												
Rated capacitance C_R	1000 ... 15000 μF												
Capacitance tolerance	$\pm 20\% \triangle M$												
Leakage current I_{leak} (20 °C, 5 min)	$I_{\text{leak}} \leq 0.3 \mu\text{A} \cdot \left(\frac{C_R}{\mu\text{F}} \cdot \frac{V_R}{V} \right)^{0.7} + 4 \mu\text{A}$												
Self-inductance ESL	d = 51.6 mm: approx. 15 nH d $\geq$ 64.3 mm: approx. 20 nH Capacitors with low-inductance design: d $\geq$ 64.3 mm: approx. 13 nH												
Useful life		Requirements:											
85 °C; V_R ; $I_{AC,R}$	> 10000 h	$\Delta C/C \leq \pm 30\%$ of initial value											
40 °C; V_R ; $1.5 \cdot I_{AC,R}$	> 200000 h	ESR ≤ 3 times initial specified limit											
		$I_{\text{leak}} \leq$ initial specified limit											
Voltage endurance test		Post test requirements:											
85 °C; V_R	2 000 h	$\Delta C/C \leq \pm 10\%$ 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: Displacement amplitude 0.75 mm, frequency range 10 ... 55 Hz, acceleration max. 10 g, duration 3 $\times$ 2 h. Capacitor mounted by its body which is rigidly clamped to the work surface.												
Characteristics at low temperature	Max. impedance ratio at 100 Hz	<table><tr><td>V_R</td><td>$\leq 400 \text{ V}$</td><td>450 V</td></tr><tr><td>$Z_{-25^\circ\text{C}} / Z_{20^\circ\text{C}}$</td><td>4</td><td>3</td></tr><tr><td>$Z_{-40^\circ\text{C}} / Z_{20^\circ\text{C}}$</td><td>16</td><td>12</td></tr></table>	V_R	$\leq 400 \text{ V}$	450 V	$Z_{-25^\circ\text{C}} / Z_{20^\circ\text{C}}$	4	3	$Z_{-40^\circ\text{C}} / Z_{20^\circ\text{C}}$	16	12		
V_R	$\leq 400 \text{ V}$	450 V											
$Z_{-25^\circ\text{C}} / Z_{20^\circ\text{C}}$	4	3											
$Z_{-40^\circ\text{C}} / Z_{20^\circ\text{C}}$	16	12											
IEC climatic category	To IEC 60068-1: 25/085/56 (–25 °C/+85 °C/56 days damp heat test) The capacitors can be operated in the temperature range of –40 °C to +85 °C but the impedance at –40 °C should be taken into consideration.												
Detail specification	Similar to CECC 30301-803, CECC 30301-807												
Sectional specification	IEC 60384-4												



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Long useful life – 85 °C

Ripple current capability

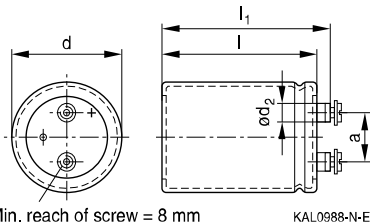
Due to the ripple current capability of the contact elements, the following current upper limits must not be exceeded:

Capacitor diameter	51.6 mm	64.3 mm	76.9 mm	91 mm
$I_{AC,max}$	34 A	45 A	57 A	80 A

Dimensional drawings

B43455

Ring clip/clamp mounting



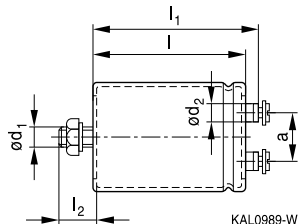
M5: Min. reach of screw = 8 mm
M6: Min. reach of screw = 12 mm ^{*)}

^{*)} 9.5 mm for low-inductance design

KAL0988-N-E

B43457

Threaded stud mounting



KAL0989-W

Positive pole marking: +

The base of types with threaded stud and $d = 91$ mm is fully insulated (the lengths l and l_1 are increased by 0.5 mm in these cases). For types with threaded stud and $d \leq 76$ mm 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 ±1	l ₁ ±1	l ₂ +0/-1	d ₁	d ₂ max.	a +0.2/-0.4	
M5	51.6 +0/-0.8	80.7	87.2	17	M12	10.2	22.2	220
M5	51.6 +0/-0.8	105.7	112.2	17	M12	10.2	22.2	280
M5	64.3 +0/-0.8	80.7	87.2	17	M12	13.2	28.5	370
M5	64.3 +0/-0.8	105.7	112.2	17	M12	13.2	28.5	440
M5	64.3 +0/-0.8	143.2	149.7	17	M12	13.2	28.5	630
M6	76.9 +0/-0.7	105.7	111.5	17	M12	17.7	31.7	620
M6	76.9 +0/-0.7	143.2	149.0	17	M12	17.7	31.7	840
M6	76.9 +0/-0.7	168.7	174.5	17	M12	17.7	31.7	1000
M6	76.9 +0/-0.7	220.7	226.5	17	M12	17.7	31.7	1300
M6	91.0 +0/-2	144.5	149.8	17	M12	17.7	31.7	1200
M6	91.0 +0/-2	221.0	226.3	17	M12	17.7	31.7	1900

Dimensions are also valid for low-inductance design.



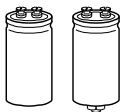
Packing

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

Capacitor diameter d (mm)	length l (mm)	Packing units (pcs.)
76.9	97.0 - 168.7	16
	191.0 - 220.7	12
91.0	all	9



For ecological reasons the packing is pure cardboard.



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Long useful life – 85 °C

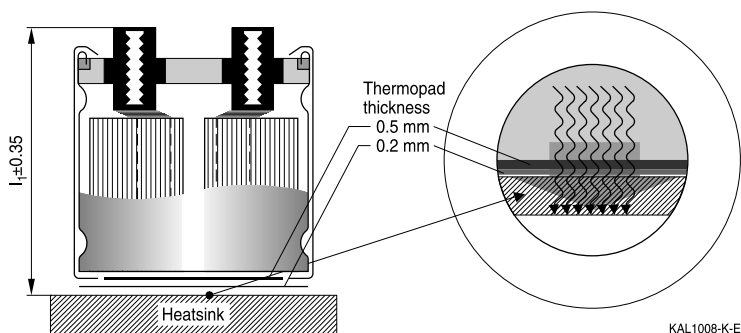
Special designs

- Low-inductance design
- For heat sink mounting

Design for optimal connection of capacitors to the heat sink when using base cooling with the following features (refer to chapter "General technical information, 5.2 Cooling"):

- Electrical insulation of the capacitors base with 2 overlapping thermal pads for optimal heat flow (minimal thermal resistance at the capacitor base)
- Minimal overall length tolerance (± 0.35 mm) for mounting between heat sink and bus bar
- Case with extra groove near the base for clamp mounting (recommended ring clamp B44030A0165B ... A0190B)

This version is available only for capacitors without threaded stud and for diameters ≥ 64.3 mm. Regarding ripple current and useful life, please refer to column $I_{AC,R}(B)$ in the table "Technical data and ordering codes" and in the useful life curves.



Ordering codes:

Design	Identification in 3rd block of ordering code	Remark
Low inductance (13 nH)	M003	For capacitors with diameter $d \geq 64.3$ mm
For heat sink mounting	M007	For capacitors with diameter $d \geq 64.3$ mm and without threaded stud



Dimensions and weights for heat sink mounting:

Ter- minal	Dimensions (mm) with insulating sleeve							Min. reach of screw mm	Approx. weight g
	d	l ±1	l ₁ ±0.35	l ₂ +0/–1	d ₁	d ₂ max.	a +0.2/–0.4		
M5	64.3 +0/–0.8	80.7	86.3	17	M12	13.2	28.5	7.3	370
M5	64.3 +0/–0.8	105.7	111.3	17	M12	13.2	28.5	7.3	440
M6	76.9 +0/–0.7	105.7	110.6	17	M12	17.7	31.7	9.7	620
M6	76.9 +0/–0.7	143.2	148.1	17	M12	17.7	31.7	9.7	840
M6	91.0 +0/–2	97.0	101.4	17	M12	17.7	31.7	9.7	1000
M6	91.0 +0/–2	144.5	148.9	17	M12	17.7	31.7	9.7	1200

Dimensions for other sizes are available upon request.

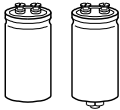
Accessories

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	Cylinder-head screw M5 × 8 DIN 84-4.8	2 Nm
	M6	A 6.4 DIN 6797	Cylinder-head screw M6 × 12 DIN 85-4.8	2.5 Nm
For mounting	M8	J 8.2 DIN 6797	Hex nut BM 8 DIN 439	4 Nm
	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 ≥ 64.3 mm	B44030
Insulating parts	B44020



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Long useful life – 85 °C

Overview of available types

V_R (V DC)	350	400	450
	Case dimensions $d \times l$ (mm)		
C_R (μF)			
1000			51.6×80.7
1500	51.6×80.7	51.6×80.7	51.6×105.7 64.3×80.7
2200	51.6×105.7	51.6×105.7 64.3×80.7	64.3×105.7
3300	64.3×105.7	64.3×105.7	64.3×143.2 76.9×105.7
4700	64.3×143.2 76.9×105.7	76.9×105.7	76.9×143.2
5600	76.9×105.7	76.9×143.2	76.9×168.7
6800	76.9×143.2	76.9×143.2	76.9×220.7
8200	76.9×168.7	91.0×144.5	76.9×220.7
10000	76.9×220.7	76.9×220.7	91.0×221.0
12000	76.9×220.7	91.0×221.0	
15000	91.0×221.0		

The capacitance and voltage ratings listed above are available in different cases upon request.

Other voltage and capacitance ratings are also available upon request.



Technical data and ordering codes

C_R	Case dimensions	ESR_{typ} 100 Hz	ESR_{max} 100 Hz	Z_{max} 10 kHz	$I_{AC,max}$ 100 Hz	$I_{AC,R}$ 100 Hz	$I_{AC,R(B)}$ 100 Hz	Ordering code (composition see below)
100 Hz	d × l	20 °C	20 °C	20 °C	40 °C	85 °C	85 °C	
μF	mm	mΩ	mΩ	mΩ	A	A	A	
$V_R = 350$ V DC								
1500	51.6 × 80.7	80	120	96	14	4.9	9.4	B4345*C4158M000
2200	51.6 × 105.7	48	72	58	20	7.1	12.7	B4345*D4228M000
3300	64.3 × 105.7	32	48	38	22	8.1	14.2	B4345*C4338M00#
4700	64.3 × 143.2	25	38	30	27	9.9	15.1	B4345*C4478M00#
4700	76.9 × 105.7	25	38	30	28	10.2	19.7	B4345*B4478M00#
5600	76.9 × 105.7	21	32	25	31	11.3	22.4	B4345*A4568M00#
6800	76.9 × 143.2	18	27	22	35	12.8	21.4	B4345*A4688M00#
8200	76.9 × 168.7	15	23	18	42	15.4	23.7	B4345*B4828M00#
10000	76.9 × 220.7	10	15	12	55	19.8	27.5	B4345*C4109M00#
12000	76.9 × 220.7	9.0	14	11	57	22.5	31.7	B4345*B4129M00#
15000	91.0 × 221.0	7.0	11	8.0	73	26.5	39.2	B4345*A4159M00#
$V_R = 400$ V DC								
1500	51.6 × 80.7	69	104	83	15	5.4	10.9	B4345*D9158M000
2200	51.6 × 105.7	59	89	71	18	6.5	11.6	B4345*B9228M000
2200	64.3 × 80.7	59	89	71	18	6.4	12.3	B4345*C9228M00#
3300	64.3 × 105.7	36	54	43	25	9.0	15.9	B4345*A9338M00#
4700	76.9 × 105.7	27	41	32	27	9.9	19.3	B4345*A9478M00#
5600	76.9 × 143.2	22	33	26	31	11.4	18.8	B4345*A9568M00#
6800	76.9 × 143.2	20	30	24	35	12.6	21.9	B4345*A9688M00#
8200	91.0 × 144.5	17	26	20	40	14.5	24.6	B4345*A9828M00#
10000	76.9 × 220.7	15	23	18	47	17.1	23.8	B4345*A9109M00#
12000	91.0 × 221.0	12	18	14	54	19.6	28.5	B4345*A9129M00#

Composition of ordering code

* = Mounting style

5 = for capacitors with ring clip/clamp mounting

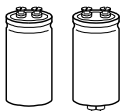
7 = for capacitors with threaded stud

= Design

0 = for capacitors with standard inductance

3 = for capacitors with low inductance (13 nH) - only capacitors with diameter d ≥ 64.3 mm

7 = for heat sink mounting - only capacitors with diameter d ≥ 64.3 mm and without threaded stud



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Long useful life – 85 °C

Technical data and ordering codes

C_R	Case dimensions	ESR_{typ} 100 Hz	ESR_{max} 100 Hz	Z_{max} 10 kHz	$I_{AC,max}$ 100 Hz	$I_{AC,R}$ 100 Hz	$I_{AC,R(B)}$ 100 Hz	Ordering code (composition see below)
100 Hz	d × l	20 °C	20 °C	20 °C	40 °C	85 °C	85 °C	
μF	mm	mΩ	mΩ	mΩ	A	A	A	
$V_R = 450 \text{ V DC}$								
1000	51.6 × 80.7	99	149	119	12	4.5	8.6	B4345*D5108M000
1500	51.6 × 105.7	63	95	76	17	6.2	10.7	B4345*C5158M000
1500	64.3 × 80.7	63	95	76	17	6.1	11.4	B4345*D5158M00#
2200	64.3 × 105.7	50	75	60	21	7.5	12.8	B4345*C5228M00#
3300	64.3 × 143.2	30	45	36	26	9.4	14.3	B4345*B5338M00#
3300	76.9 × 105.7	30	45	36	26	9.4	17.7	B4345*C5338M00#
4700	76.9 × 143.2	23	35	28	32	11.7	19.6	B4345*B5478M00#
5600	76.9 × 168.7	20	30	24	36	13.2	20.0	B4345*A5568M00#
6800	76.9 × 220.7	16	24	19	43	15.7	21.0	B4345*A5688M00#
8200	76.9 × 220.7	13	20	16	51	18.5	25.6	B4345*B5828M00#
10000	91.0 × 221.0	11	17	13	57	20.7	29.9	B4345*A5109M00#

Composition of ordering code

* = Mounting style

5 = for capacitors with ring clip/clamp mounting

7 = for capacitors with threaded stud

= Design

0 = for capacitors with standard inductance

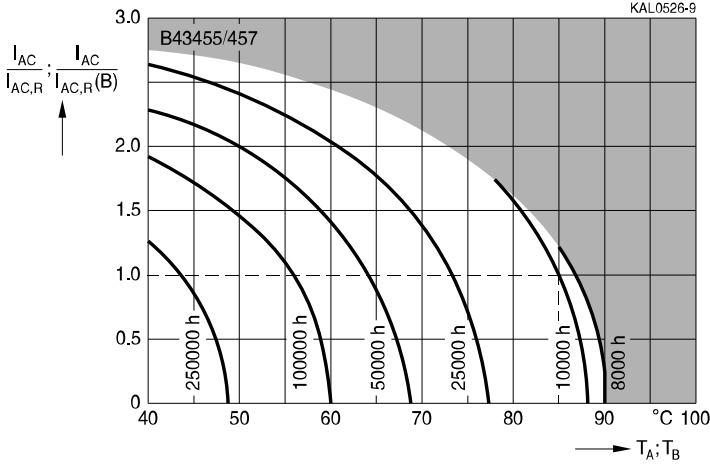
3 = for capacitors with low inductance (13 nH) - only capacitors with diameter $d \geq 64.3 \text{ mm}$

7 = for heat sink mounting - only capacitors with diameter $d \geq 64.3 \text{ mm}$ and without threaded stud

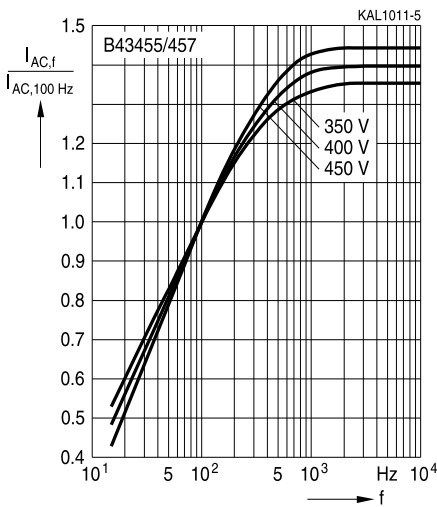


Useful life

depending on ambient temperature T_A (for natural cooling) and versus temperature of case base T_B (for base cooling) under ripple current operating conditions^{1) 2)}

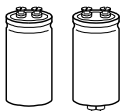


Frequency factor of permissible ripple current I_{AC} versus frequency f



1) The ripple current refers to $I_{AC,R}$ for natural cooling or $I_{AC,R}(B)$ for base cooling, respectively.

2) Refer to chapter "General technical information, 5.3 Calculation of useful life" on how to interpret the useful life graphs.

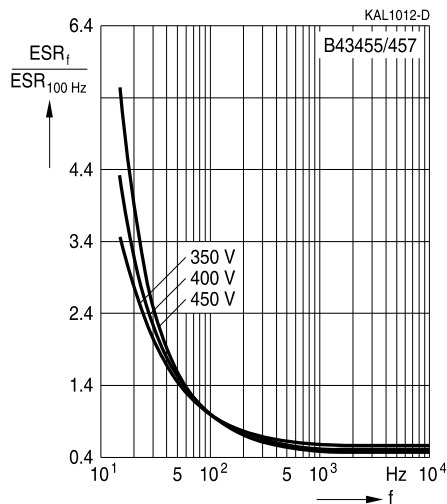


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Long useful life – 85 °C

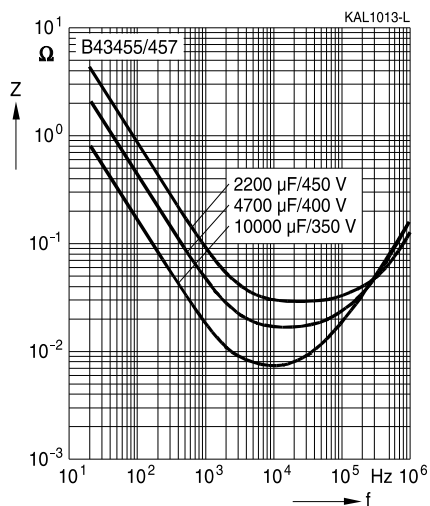
Frequency characteristics of ESR

Typical behavior



Impedance Z versus frequency f

Typical behavior at 20 °C





Cautions and warnings

Personal safety

The electrolytes used by EPCOS have not only been optimized with a view to the intended application, but also 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, part of the high-voltage electrolytes used by EPCOS are self-extinguishing. They contain flame-retarding substances which will quickly extinguish any flame that may have been ignited.

As far as possible, EPCOS does not use any dangerous chemicals or compounds to produce operating electrolytes. However, in exceptional cases, such materials must be used in order to achieve specific physical and electrical properties because no safe substitute materials are currently known. However, the amount of dangerous materials used in our products has been limited to an absolute minimum. Nevertheless, the following rules should be observed when handling Al electrolytic capacitors:

- Any escaping electrolyte should not come into contact with eyes or skin.
- If electrolyte does come into contact with the skin, wash the affected parts 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 breathing in 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.



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Long useful life – 85 °C

Product safety

The table below summarize 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 polarity classes should be prevented by connecting a diode.	3.1.6 "Reverse voltage"
Upper category temperature	Do not exceed the upper category temperatur.	7.2 "Maximum permissible operating temperature"
Maintenance	Make periodic inspections of the capacitors. Before the inspection, make sure that the power supply is turned off and carefully discharge the electricity of the capacitors. Do not apply any mechanical stress to the capacitor terminals.	10 "Maintenance"
Mounting position of screw terminal capacitors	Do not mount the capacitor with the terminals (safety vent) upside down.	11.1. "Mounting positions of capacitors with screw terminals"
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"
Robustness of terminals	The following maximum tightening torques must not be exceeded when connecting screw terminals: M5: 2 Nm M6: 2.5 Nm	11.3 "Mounting torques"
Soldering	Do not exceed the specified time or temperature limits during soldering.	11.5 "Soldering"



Topic	Safety information	Reference Chapter "General technical information"
Soldering, cleaning agents	Do not allow halogenated hydrocarbons to come into contact with aluminum electrolytic capacitors.	11.6 "Cleaning agents"
Passive flammability	Avoid external energy, such as fire or electricity.	8.1 "Passive flammability"
Active flammability	Avoid overload of the capacitors.	8.2 "Active flammability"
		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"



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Long useful life – 85 °C

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
$I_{AC,R} (B)$	Rated ripple current for base cooling	Nennwechselstromstrom für Bodenkühlung
I_{leak}	Leakage current	Ableitstrom
$I_{leak,op}$	Operating leakage current	Ableitstrom bei Betrieb
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 Becherbodens
t	Time	Zeit
Δt	Period	Zeitraum
t_b	Service life (operating hours)	Brauchbarkeitsdauer (Betriebszeit)



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 δ	Dissipation factor	Verlustfaktor
λ	Failure rate	Ausfallrate
ε ₀	Absolute permittivity	Elektrische Feldkonstante
ε _r	Relative permittivity	Dielektrizitätszahl
ω	Angular velocity; 2 · π · f	Kreisfrequenz; 2 · π · f

Notes

All dimensions are given in mm.

Important notes

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