

Aluminum Electrolytic Capacitors with Screw Terminals

Series/Type: B41554

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B41554E9688Q000		2017-11-17	2018-11-17	2019-05-17
B41554E9478Q000		2017-11-17	2018-11-17	2019-05-17
B41554E9159Q000		2017-11-17	2018-11-17	2019-05-17



Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B41554E9109Q000		2017-11-17	2018-11-17	2019-05-17
B41554E8339Q000		2017-11-17	2018-11-17	2019-05-17
B41554E8229Q000		2017-11-17	2018-11-17	2019-05-17
B41554E8159Q000		2017-11-17	2018-11-17	2019-05-17
B41554E8109Q000		2017-11-17	2018-11-17	2019-05-17
B41554E7689Q000		2017-11-17	2018-11-17	2019-05-17
B41554E7479Q000		2017-11-17	2018-11-17	2019-05-17
B41554E7339Q000		2017-11-17	2018-11-17	2019-05-17
B41554E7229Q000		2017-11-17	2018-11-17	2019-05-17
B41554E5689Q000		2017-11-17	2018-11-17	2019-05-17
B41554E5479Q000		2017-11-17	2018-11-17	2019-05-17
B41554E5339Q000		2017-11-17	2018-11-17	2019-05-17
B41554E5100Q000		2017-11-17	2018-11-17	2019-05-17
B41554E4689Q000		2017-11-17	2018-11-17	2019-05-17
B41554E4479Q000		2017-11-17	2018-11-17	2019-05-17
B41554E4150Q000		2017-11-17	2018-11-17	2019-05-17
B41554E4100Q000		2017-11-17	2018-11-17	2019-05-17
B41554B9339Q000		2017-11-17	2018-11-17	2019-05-17
B41554B9229Q000		2017-11-17	2018-11-17	2019-05-17
B41554B8479Q000		2017-11-17	2018-11-17	2019-05-17
B41554B7100Q000		2017-11-17	2018-11-17	2019-05-17
B41554B5150Q000		2017-11-17	2018-11-17	2019-05-17
B41554B4220Q000		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 - 125 °C

Long-life grade capacitors

Applications

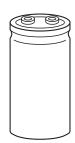
Highly professional power supplies

Features

- Outstanding reliability
- Wide temperature range
- Good thermal characteristics and 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, fully insulated with PET
- Poles with screw terminal connections
- Mounting with ring clips or clamps





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Specifications and characteristics in brief

$I_{\text{leak}} \leq 0.018 \ \mu\text{A} \cdot \left(\frac{C_R}{\mu\text{F}} \cdot \frac{V_R}{V}\right)^{0.85} + 4 \ \mu\text{A}$				
ed limit				
ified limit				
۱m,				
work				
To IEC 60068-1:				
55/125/56 (-55 °C/+125 °C/56 days damp heat test)				

Ripple current capability

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

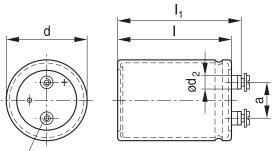
Capacitor diameter	51.6 mm	> 51.6 mm
I _{AC, max}	30 A	40 A

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





Dimensional drawings



Min. reach of screw = 9.5 mm

Positive pole marking: + KAL13

KAL1320-M-E

Dimensions and weights

Ter-	Dimensions (m	Approx.				
minal	d	l ±1	I ₁ ±1	d ₂ max.	a +0.2/-0.4	weight (g)
M5	51.6 +0.5/-1	80.7	87.0	8.2	22.2	220
M5	64.3 +0.5/-1	80.7	87.0	8.2	28.5	370
M5	64.3 +0.5/-1	105.7	112.0	8.2	28.5	440
M5	76.9 +0.5/-1	105.7	112.0	8.2	31.7	620
M5	76.9 +0.5/-1	143.2	149.5	8.2	31.7	840

Tolerances of terminal thread M5: 6H



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Packing

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



For ecological reasons the packing is pure cardboard.

Accessories

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

	Thread	Toothed	Screws/nuts	Maximum
		washers		torque
For terminals	M5	A 5.1 DIN 6797	DIN 7985 / ISO 7045-M5 × 10-5.6-Z	2 Nm

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

Item	Туре
Ring clips	B44030
Clamps for capacitors with $d \ge 64.3$ mm	B44030



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Overview of available types

The capacitance and voltage ratings listed below 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 dimensio	ns d × l (mm)		·	·
C _R (μF)					
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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Technical data and ordering codes

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		Case	ECD	ECD	7	1	1	1	Ovelavia e a da
$\begin{array}{c c c c c c c c c c c c c c c c c c c $								-	Ordering code
$\begin{array}{c c c c c c c c c c c c c c c c c c c $									
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $									
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	·		mΩ	mΩ	mΩ	А	A	А	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$V_{R} = 16$ \	V DC	r		r				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	47000	51.6× 80.7	5.0		13	30	30		B41554E4479Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		64.3×80.7	4.0	13	11	40	38	14	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	100000	64.3×105.7	4.0	10	9.0	40	39	14	B41554E4100Q000
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	150000	76.9×105.7	4.0	10	8.0	40	40	16	B41554E4150Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	220000	76.9×143.2	3.0	8.0	7.0	40	40	19	B41554B4220Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$V_{R} = 25$ V	V DC							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33000	51.6× 80.7	6.0	15	12	30	29	10	B41554E5339Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	47000	64.3× 80.7	5.0	13	11	40	34	12	B41554E5479Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	68000	64.3×105.7	5.0	11	9.0	40	35	13	B41554E5689Q000
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	100000	76.9×105.7	4.0	9.0	8.0	40	39	15	B41554E5100Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	150000	76.9 × 143.2	4.0	7.0	6.0	40	40	19	B41554B5150Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$V_{R} = 40$ V	V DC							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	22000	51.6× 80.7	6.0	15	12	30	29	10	B41554E7229Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33000	64.3× 80.7	5.0	11	10	40	34	12	B41554E7339Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	47000	64.3 × 105.7	5.0	10	9.0	40	35	13	B41554E7479Q000
$ \begin{matrix} V_{\text{R}} = 63 \text{ V DC} \\ \hline 10000 & 51.6 \times 80.7 & 7.0 & 18 & 14 & 30 & 27 & 9.6 & B41554E8109Q000 \\ 15000 & 64.3 \times 80.7 & 6.0 & 15 & 11 & 40 & 31 & 11 & B41554E8159Q000 \\ 22000 & 64.3 \times 105.7 & 5.0 & 12 & 9.0 & 40 & 35 & 13 & B41554E8229Q000 \\ 33000 & 76.9 \times 105.7 & 4.0 & 9.0 & 8.0 & 40 & 39 & 15 & B41554E8339Q000 \\ 47000 & 76.9 \times 143.2 & 4.0 & 7.0 & 6.0 & 40 & 40 & 19 & B41554E8479Q000 \\ \hline V_{\text{R}} = 100 \text{ V DC} \\ \hline 4700 & 51.6 \times 80.7 & 13 & 29 & 20 & 29 & 20 & 7.2 & B41554E9478Q000 \\ 6800 & 64.3 \times 80.7 & 8.0 & 22 & 17 & 36 & 25 & 9.1 & B41554E9478Q000 \\ 10000 & 64.3 \times 80.7 & 7.0 & 15 & 14 & 40 & 30 & 11 & B41554E9688Q000 \\ 10000 & 64.3 \times 105.7 & 6.0 & 13 & 11 & 40 & 36 & 13 & B41554E9109Q000 \\ 22000 & 76.9 \times 105.7 & 5.0 & 11 & 9.0 & 40 & 39 & 14 & B41554B9229Q000 \\ \hline \end{matrix}$	68000	76.9×105.7	4.0	9.0	8.0	40	39	15	B41554E7689Q000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	100000	76.9 × 143.2	4.0	7.0	6.0	40	40	19	B41554B7100Q000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$V_{R} = 63$ V	V DC							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10000	51.6× 80.7	7.0	18	14	30	27	9.6	B41554E8109Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15000	64.3× 80.7	6.0	15	11	40	31	11	B41554E8159Q000
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	22000	64.3×105.7	5.0	12	9.0	40	35	13	B41554E8229Q000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	33000	76.9×105.7	4.0	9.0	8.0	40	39	15	B41554E8339Q000
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	47000	76.9 × 143.2	4.0	7.0	6.0	40	40	19	B41554B8479Q000
680064.3 × 80.78.0221736259.1B41554E9688Q0001000064.3 × 80.77.01514403011B41554E9109Q0001500064.3 × 105.76.01311403613B41554E9159Q0002200076.9 × 105.75.0119.0403914B41554B9229Q000	$V_{R} = 100$	V DC							
680064.3 × 80.78.0221736259.1B41554E9688Q0001000064.3 × 80.77.01514403011B41554E9109Q0001500064.3 × 105.76.01311403613B41554E9159Q0002200076.9 × 105.75.0119.0403914B41554B9229Q000	4700	51.6× 80.7	13	29	20	29	20	7.2	B41554E9478Q000
15000 64.3 × 105.7 6.0 13 11 40 36 13 B41554E9159Q000 22000 76.9 × 105.7 5.0 11 9.0 40 39 14 B41554B9229Q000	6800	64.3× 80.7							
15000 64.3 × 105.7 6.0 13 11 40 36 13 B41554E9159Q000 22000 76.9 × 105.7 5.0 11 9.0 40 39 14 B41554B9229Q000	10000	64.3× 80.7	7.0	15	14	40	30	11	B41554E9109Q000
22000 76.9×105.7 5.0 11 9.0 40 39 14 B41554B9229Q000	15000	64.3 × 105.7	6.0	13	11	40	36	13	
33000 76.9×143.2 4.0 9.0 8.0 40 40 17 B41554B9339Q000									B41554B9229Q000
	33000	76.9 imes 143.2	4.0	9.0	8.0	40	40	17	B41554B9339Q000

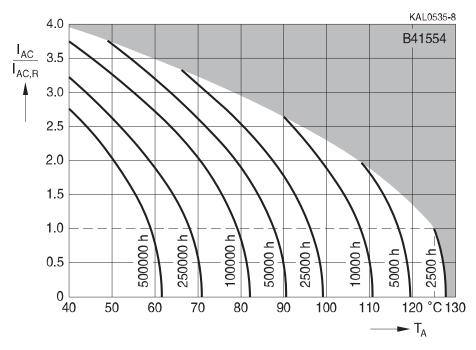




Useful life¹⁾

depending on ambient temperature T_A under ripple current operating conditions

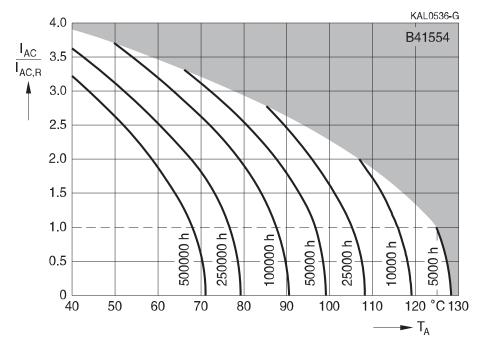
d = 51.6 mm



Useful life¹⁾

depending on ambient temperature T_A under ripple current operating conditions

 $d \geq 64.3 \text{ mm}$



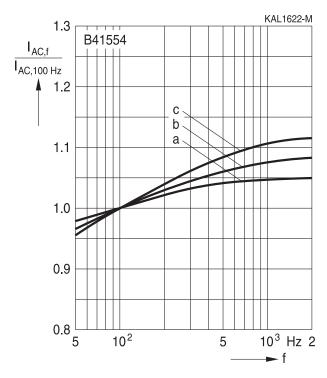
1) Refer to chapter "General technical information, 5 Useful life" on how to interpret useful life.







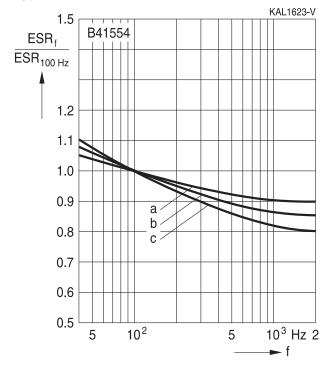
Frequency factor of permissible ripple current I_{AC} versus frequency f



V _R (V DC)	16; 25	40	63	100
d = 51.6 mm	а	b	С	С
d = 64.3 mm	а	а	С	С
d = 76.9 mm	а	а	b	С
u = 70.5 mm	u	u	U	U

Frequency characteristics of ESR

Typical behavior



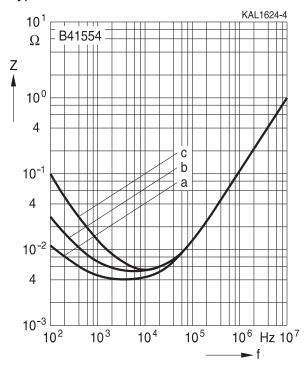
V _R (V DC)	16; 25	40	63	100
d = 51.6 mm	а	b	С	С
d = 64.3 mm	а	а	С	с
d = 76.9 mm	а	а	b	С





Impedance Z versus frequency f

Typical behavior at 20 °C



C _R	V _R	d	Curve
μF	V DC	mm	
150000	16	76.9	а
68000	40	76.9	b
15000	100	64.3	С



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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.





SIKOREL – 125 °C

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".

Торіс	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 Upper category temperature	Do not allow halogenated hydrocarbons to come into contact with aluminum electrolytic capacitors. Do not exceed the upper category temperature.	11.6 "Cleaning agents" 7.2 "Maximum permissible
Passive flammability	Avoid external energy, e.g. fire.	operating temperature" 8.1 "Passive flammability"



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B41554



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

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 order-ing 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.



SIKOREL - 125 °C

Symbols and terms

Symbol	English	German
С	Capacitance	Kapazität
C _R	Rated capacitance	Nennkapazität
Cs	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
l _{leak,op}	Operating leakage current	Betriebsreststrom
I	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
Т	Temperature	Temperatur
ΔT	Temperature difference	Temperaturdifferenz
T _A	Ambient temperature	Umgebungstemperatur
T _c	Case temperature	Gehäusetemperatur
Т _в	Capacitor base temperature	Temperatur des Gehäusebodens
t	Time	Zeit
Δt	Period	Zeitraum
t _b	Service life (operating hours)	Brauchbarkeitsdauer (Betriebszeit)





SIKOREL - 125 °C

Symbol	English	German
V	Voltage	Spannung
V _F	Forming voltage	Formierspannung
V_{op}	Operating voltage	Betriebsspannung
V _R	Rated voltage, DC voltage	Nennspannung, Gleichspannung
Vs	Surge voltage	Spitzenspannung
X _c	Capacitive reactance	Kapazitiver Blindwiderstand
XL	Inductive reactance	Induktiver Blindwiderstand
Z	Impedance	Scheinwiderstand
Ζ _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; $2 \cdot \pi \cdot f$	Kreisfrequenz; $2 \cdot \pi \cdot f$

Note

All dimensions are given in mm.

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 we are 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 a 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 life-saving 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.tdk-electronics.tdk.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.

- 6. Unless otherwise agreed in individual contracts, all orders are subject to our General Terms and Conditions of Supply.
- 7. Our manufacturing sites serving the automotive business apply the IATF 16949 standard. The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements ("CSR") TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that only requirements mutually agreed upon can and will be implemented in our Quality Management System. For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.



Important notes

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

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