



# Aluminum electrolytic capacitors

Capacitors with screw terminals

**Series/Type:** B43464, B43484

**Date:** February 2014

## General-purpose grade capacitors

### Applications

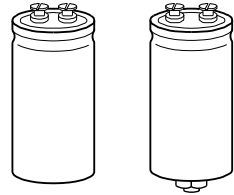
- Uninterruptible power supplies
- Frequency converters

### Features

- All-welded construction ensures reliable electrical contact
- RoHS-compatible

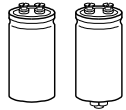
### Construction

- 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



B43464

B43484



## Specifications and characteristics in brief

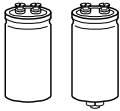
Rated voltage $V_R$	350 ... 450 V DC								
Surge voltage $V_S$	$1.10 \cdot V_R$								
Rated capacitance $C_R$	1000 ... 12000 $\mu F$								
Capacitance tolerance	$\pm 20\% \triangle M$								
Dissipation factor $\tan \delta$ (20 °C, 120 Hz)	$\leq 0.20$								
Leakage current $I_{leak}$ (20 °C, 5 min)	$I_{leak} \leq 0.026 \mu A \cdot \left( \frac{C_R}{\mu F} \cdot \frac{V_R}{V} \right)^{0.85} + 20 \mu A$								
Self-inductance ESL	d = 51.6 mm: approx. 15 nH d $\geq$ 64.3 mm: approx. 20 nH								
Useful life <sup>1)</sup> 85 °C; $V_R$ ; $I_{AC,R}$ 40 °C; $V_R$ ; $1.5 \cdot I_{AC,R}$	> 5000 h > 90000 h	Requirements: $ \Delta C/C  \leq 15\%$ of initial value $\tan \delta \leq 1.75$ times initial specified limit $I_{leak} \leq$ initial specified limit							
Voltage endurance test 85 °C; $V_R$	2000 h	Post test requirements: $ \Delta C/C  \leq 10\%$ of initial value $\tan \delta \leq 1.3$ times initial specified limit $I_{leak} \leq$ 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.								
Characteristics at low temperature	Max. impedance ratio at 100 Hz	<table><tr><td><math>V_R</math></td><td>350 ... 450 V</td></tr><tr><td><math>Z_{-25^\circ C} / Z_{20^\circ C}</math></td><td>3</td></tr><tr><td><math>Z_{-40^\circ C} / Z_{20^\circ C}</math></td><td>10</td></tr></table>	$V_R$	350 ... 450 V	$Z_{-25^\circ C} / Z_{20^\circ C}$	3	$Z_{-40^\circ C} / Z_{20^\circ C}$	10	
$V_R$	350 ... 450 V								
$Z_{-25^\circ C} / Z_{20^\circ C}$	3								
$Z_{-40^\circ C} / Z_{20^\circ C}$	10								
IEC climatic category	To IEC 60068-1: 40/085/56 (–40 °C/+85 °C/56 days damp heat test)								
Detail specification	Similar to CECC 30301-810								
Sectional specification	IEC 60384-4								

## 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
$I_{AC,max}$	30 A	40 A	50 A

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



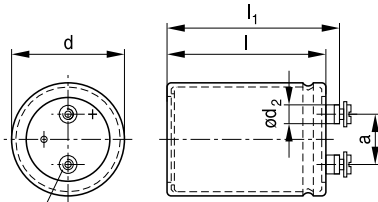
**B43464, B43484**

**Standard – 85 °C**

## Dimensional drawings

### B43464

Ring clip/clamp mounting



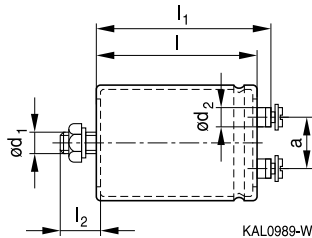
Min. reach of screw = 9,5 mm

Positive pole marking: +

KAL1320-M-E

### B43484

Threaded stud mounting

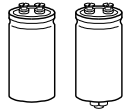


KAL0989-W

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	$l \pm 1$	$l_1 \pm 1$	$l_2 +0/-1$	$d_1$	$d_2 \text{ max.}$	$a +0.2/-0.4$	
M5	51.6 +0/-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	51.6 +0/-0.8	130.7	137.2	17	M12	10.2	22.2	350
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	118.2	124.7	17	M12	13.2	28.5	510
M5	64.3 +0/-0.8	130.7	137.2	17	M12	13.2	28.5	600
M5	76.9 +0/-0.7	105.7	112.2	17	M12	13.2	31.7	620
M5	76.9 +0/-0.7	118.2	124.7	17	M12	13.2	31.7	700
M5	76.9 +0/-0.7	143.2	149.7	17	M12	13.2	31.7	840
M5	76.9 +0/-0.7	168.7	175.2	17	M12	13.2	31.7	1000
M5	76.9 +0/-0.7	190.7	197.2	17	M12	13.2	31.7	1150
M5	76.9 +0/-0.7	220.7	227.2	17	M12	13.2	31.7	1300

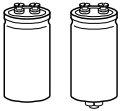


## Packing

Capacitor diameter d (mm)	length l (mm)	Packing units (pcs.)
51.6	all	36
64.3	all	25
76.9	105.7 - 168.7	16
	190.7 - 220.7	12



For ecological reasons the packing is pure cardboard.



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**Standard – 85 °C**

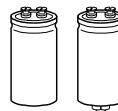
### Accessories

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	2.5 Nm thread depth $t \geq 8$ mm
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 "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**

$V_R$ (V DC)	350	400	450
	Case dimensions $d \times l$ (mm)		
$C_R$ (μF)			
1000		$51.6 \times 80.7$	$51.6 \times 80.7$
1500	$51.6 \times 80.7$	$51.6 \times 80.7$	$51.6 \times 105.7$
2200	$51.6 \times 105.7$ $64.3 \times 80.7$	$51.6 \times 105.7$ $64.3 \times 80.7$	$64.3 \times 105.7$
2700	$64.3 \times 80.7$	$51.6 \times 130.7$	$64.3 \times 105.7$
3300	$64.3 \times 105.7$	$64.3 \times 105.7$	$76.9 \times 105.7$
3900	$64.3 \times 105.7$	$64.3 \times 118.2$	$64.3 \times 130.7$
4700	$64.3 \times 118.2$	$64.3 \times 130.7$ $76.9 \times 105.7$	$76.9 \times 118.2$
5600	$76.9 \times 105.7$	$76.9 \times 118.2$	$76.9 \times 143.2$
6800	$76.9 \times 118.2$	$76.9 \times 143.2$	$76.9 \times 168.7$
8200	$76.9 \times 143.2$	$76.9 \times 168.7$	$76.9 \times 220.7$
10000	$76.9 \times 168.7$	$76.9 \times 190.7$	$76.9 \times 220.7$
12000	$76.9 \times 190.7$	$76.9 \times 220.7$	

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

Other voltage and capacitance ratings are also available upon request.



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**Standard – 85 °C**

### Technical data and ordering codes

$C_R$ 100 Hz 20 °C $\mu F$	Case dimensions $d \times l$ mm	$ESR_{typ}$ 100 Hz 20 °C $m\Omega$	$Z_{max}$ 10 kHz 20 °C $m\Omega$	$I_{AC,max}$ 100 Hz 40 °C A	$I_{AC,R}$ 100 Hz 85 °C A	Ordering code (composition see below)
<b><math>V_R = 350 V DC</math></b>						
1500	51.6 × 80.7	85	106	15	5.5	B434*4A4158M000
2200	51.6 × 105.7	57	71	20	7.3	B434*4A4228M000
2200	64.3 × 80.7	57	71	20	7.3	B434*4B4228M000
2700	64.3 × 80.7	45	56	23	8.5	B434*4A4278M000
3300	64.3 × 105.7	37	46	27	9.8	B434*4A4338M000
3900	64.3 × 105.7	32	40	30	10.9	B434*4A4398M000
4700	64.3 × 118.2	28	35	33	12.2	B434*4A4478M000
5600	76.9 × 105.7	25	31	37	13.4	B434*4A4568M000
6800	76.9 × 118.2	20	25	43	15.7	B434*4A4688M000
8200	76.9 × 143.2	16	20	50	18.4	B434*4A4828M000
10000	76.9 × 168.7	12	15	50	22.4	B434*4A4109M000
12000	76.9 × 190.7	10	13	50	26.1	B434*4A4129M000
<b><math>V_R = 400 V DC</math></b>						
1000	51.6 × 80.7	100	125	13	4.8	B434*4A9108M000
1500	51.6 × 80.7	74	93	16	6.0	B434*4A9158M000
2200	51.6 × 105.7	55	69	21	7.7	B434*4A9228M000
2200	64.3 × 80.7	55	56	21	7.5	B434*4B9228M000
2700	51.6 × 130.7	45	56	25	9.0	B434*4A9278M000
3300	64.3 × 105.7	37	46	28	10.1	B434*4A9338M000
3900	64.3 × 118.2	31	39	32	11.5	B434*4A9398M000
4700	64.3 × 130.7	25	31	37	13.5	B434*4A9478M000
4700	76.9 × 105.7	25	31	36	13.3	B434*4B9478M000
5600	76.9 × 118.2	22	28	40	14.8	B434*4A9568M000
6800	76.9 × 143.2	18	23	47	17.2	B434*4A9688M000
8200	76.9 × 168.7	15	19	50	19.9	B434*4A9828M000
10000	76.9 × 190.7	12	15	50	23.8	B434*4A9109M000
12000	76.9 × 220.7	10	13	50	27.8	B434*4A9129M000

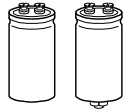
### Composition of ordering code

\* = Mounting style

6 = for capacitors with ring clip/clamp mounting

8 = for capacitors with threaded stud





### Technical data and ordering codes

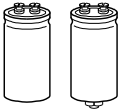
$C_R$ 100 Hz 20 °C $\mu F$	Case dimensions $d \times l$ mm	$ESR_{typ}$ 100 Hz 20 °C $m\Omega$	$Z_{max}$ 10 kHz 20 °C $m\Omega$	$I_{AC,max}$ 100 Hz 40 °C A	$I_{AC,R}$ 100 Hz 85 °C A	Ordering code (composition see below)
$V_R = 450 V DC$						
1000	$51.6 \times 80.7$	110	138	13	4.7	B434*4A5108M000
1500	$51.6 \times 105.7$	72	90	17	6.4	B434*4A5158M000
2200	$64.3 \times 105.7$	50	63	23	8.2	B434*4A5228M000
2700	$64.3 \times 105.7$	44	55	25	9.1	B434*4A5278M000
3300	$76.9 \times 105.7$	35	44	30	10.8	B434*4A5338M000
3900	$64.3 \times 130.7$	30	38	33	12.2	B434*4A5398M000
4700	$76.9 \times 118.2$	23	29	39	14.4	B434*4A5478M000
5600	$76.9 \times 143.2$	20	25	44	16.2	B434*4A5568M000
6800	$76.9 \times 168.7$	17	21	50	18.5	B434*4A5688M000
8200	$76.9 \times 220.7$	14	18	50	21.7	B434*4A5828M000
10000	$76.9 \times 220.7$	12	15	50	24.9	B434*4A5109M000

### Composition of ordering code

\* = Mounting style

6 = for capacitors with ring clip/clamp mounting

8 = for capacitors with threaded stud

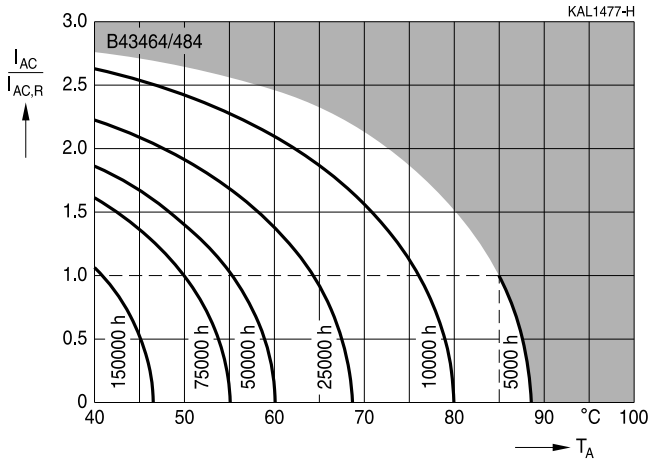


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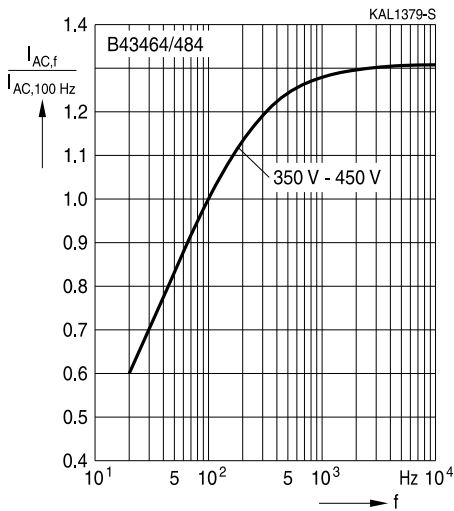
**Standard – 85 °C**

### Useful life<sup>1)</sup>

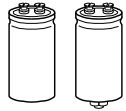
depending on ambient temperature  $T_A$  under ripple current operating conditions



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

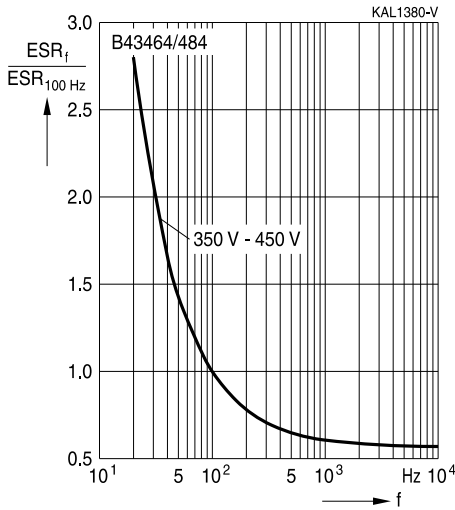


1) Refer to chapter "General technical information, 5 Useful life" on how to interpret useful life.



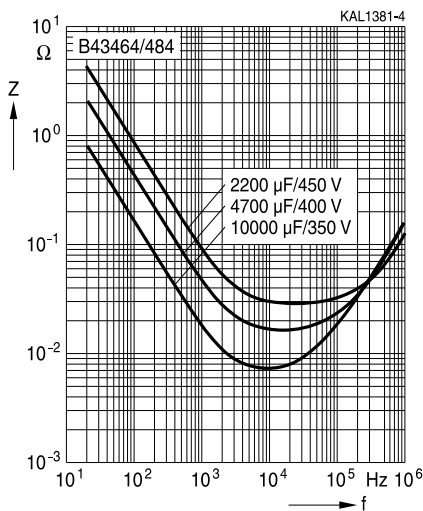
## Frequency characteristics of ESR

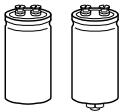
Typical behavior



## Impedance Z versus frequency f

Typical behavior at 20 °C





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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.

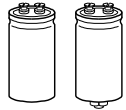
As far as possible, EPCOS does not use any dangerous chemicals or compounds to produce operating electrolytes. However, in exceptional cases, such materials must be used in order to achieve specific physical and electrical properties because no alternative materials are currently known. However, the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

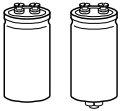
Nevertheless, the following rules should be observed when handling aluminum electrolytic capacitors: No electrolyte should come into contact with eyes or skin. If electrolyte does come into contact with the skin, wash the affected areas immediately with running water. If the eyes are affected, rinse 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.



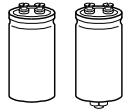
## Product safety

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 polarity classes should be prevented by connecting a diode.	3.1.6 "Reverse voltage"
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"
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, such as fire or electricity.	8.1 "Passive flammability"


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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 electricity of the capacitors. Do not apply any mechanical stress to the capacitor terminals.	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 $\leq 75\%$ .	7.3 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"



## 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	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
$\Delta T$	Temperature difference	Temperaturdifferenz
$T_A$	Ambient temperature	Umgebungstemperatur
$T_C$	Case temperature	Gehäusetemperatur
$T_B$	Capacitor base temperature	Temperatur des Becherbodens
t	Time	Zeit
$\Delta t$	Period	Zeitraum
$t_b$	Service life (operating hours)	Brauchbarkeitsdauer (Betriebszeit)



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**Standard – 85 °C**

Symbol	English	German
V	Voltage	Spannung
V <sub>F</sub>	Forming voltage	Formierspannung
V <sub>op</sub>	Operating voltage	Betriebsspannung
V <sub>R</sub>	Rated voltage, DC voltage	Nennspannung, Gleichspannung
V <sub>S</sub>	Surge voltage	Spitzenspannung
X <sub>C</sub>	Capacitive reactance	Kapazitiver Blindwiderstand
X <sub>L</sub>	Inductive reactance	Induktiver Blindwiderstand
Z	Impedance	Scheinwiderstand
Z <sub>T</sub>	Impedance at temperature T	Scheinwiderstand bei Temperatur T
tan δ	Dissipation factor	Verlustfaktor
λ	Failure rate	Ausfallrate
ε <sub>0</sub>	Absolute permittivity	Elektrische Feldkonstante
ε <sub>r</sub>	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.
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