

Aluminum electrolytic capacitors

Snap-in capacitors

Series/Type: B43305

Date: December 2013

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Snap-in capacitors

Ultra compact - 85 °C

General-purpose grade capacitors

Applications

- Frequency converters
- Solar inverters
- Uninterruptible power supplies
- Professional power supplies
- Medical appliances
- Telecommunications

Features

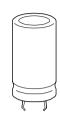
- Voltage derating (0.93 · V_R) enables 105 °C operation,more details available upon request
- Extremely high CV product, ultra compact
- High ripple current capability
- Different case sizes available for each capacitance value
- Capacitors with all insulation versions pass the needle flame test according to IEC 60695-11-5 for all flame exposure times up to 120 s
- RoHS-compatible

Construction

- Charge/discharge-proof, polar
- Aluminum case, fully insulated with PVC
- Version with PET insulation available
- Version with additional PET insulation cap on terminal side available for insulating the capacitor from the PCB
- Snap-in solder pins to hold component in place on PC-board
- Minus pole marking on case surface
- Minus pole not insulated from case
- Overload protection by safety vent on the base

Terminals

- Standard version with 2 terminals.
 - 2 lengths available: 6.3 and 4.5 mm
- 3 terminals to ensure correct insertion: length 4.5 mm





Ultra compact - 85 °C



Specifications and characteristics in brief

Rated voltage V _R	200 450 V DC						
Surge voltage V _S	$1.15 \cdot V_R$ (for $V_R \le 2$	$1.15 \cdot V_R \text{ (for } V_R \leq 250 \text{ V DC)}$					
	$1.10 \cdot V_R$ (for $V_R \ge 4$	1.10 · V_R (for $V_R \ge 400 \text{ V DC}$)					
Rated capacitance C _R	68 3300 μF						
Capacitance tolerance	±20% ≙ M						
Dissipation factor tan δ	$V_R \le 250 \text{ V DC: } \tan \delta \le 0.15$						
(20 °C, 120 Hz)	V _R ≥ 400 V DC: tan	$V_R \ge 400 \text{ V DC}$: tan $\delta \le 0.20$					
Leakage current I _{leak}	$I_{leak} \le 0.3 \ \mu A \cdot \left(\frac{C_p}{\mu F}\right)$	۷ V	$\mathbb{R}^{0.7}$	L 1Λ			
(5 min, 20 °C)		= "∇	<u> </u>	F 4 μA			
Self-inductance ESL	Approx. 20 nH						
Useful life ¹⁾		Re	quire	ments:			
85 °C; V _R ; I _{AC,R}	> 2000 h	ΔC	:/C	≤ ±20%	of initial va	alue	
40 °C; V_R ; 1.1 · $I_{AC,R}$	> 100000 h	tan	١δ	≤ 2 time	s initial sp	ecified limit	
		I _{leak}	(≤ initial :	specified li	mit	
Voltage endurance test		Po	st tes	t requirem	ents:		
85 °C; V _R	2000 h	ΔC	/C	≤ ±10%	of initial va	alue	
		tan	١δ	≤ 1.3 tin	nes initial s	specified lin	nit
		I _{leak}	(\leq initial :	specified li	mit	
Vibration resistance	To IEC 60068-2-6,	test	Fc:				
test	Frequency range 10) Hz	55	Hz, displ	acement a	mplitude 0.	35 mm,
	acceleration max. 5	•					
	Capacitor mounted	by it	ts boo	ly which is	rigidly cla	mped to the	e work
	surface.						
Characteristics at low	Max. impedance ra	tio					=
temperature	at 100 Hz	lio	V_R		≤ 250 V	≥ 400 V	
			Z ₋₂₅	° _C / Z ₂₀ ° _C	3	7	_
				°C / Z 20 °C	7	14	-
					I	l.	=
IEC climatic category	To IEC 60068-1:						
	V _R ≤ 250 V DC: 4						
	■ V _R ≥ 400 V DC: 2			•			
	The capacitors c		•		•	•	
	-40 °C to +85 °C consideration.	bu ر	t the i	mpedance	e at -40 °C	Snould be	taken into
Dotail engoification	Similar to CECC 30	201	906				
Detail specification Sectional specification	IEC 60384-4	30 I	-000				
Sectional specification	10 00304-4						

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

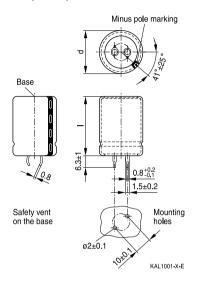




Ultra compact - 85 °C

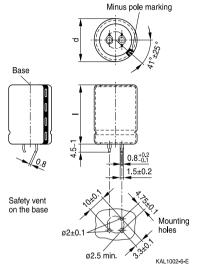
Dimensional drawings

Snap-in capacitors with standard insulation (PVC or PET)



Snap-in terminals, length (6.3 ± 1) mm. Also available in a shorter version with a length of (4.5 - 1) mm. PET insulation is marked with label "PET" on the sleeve.

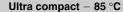
Dimensions (mm)		Approx.	Packing
d +1	I±2	weight (g)	units (pcs.)
22	25	9	160
22	30	12	160
22	35	15	160
22	40	18	160
22	45	20	160
22	50	24	160
25	25	13	130
25	30	17	130
25	35	19	130
25	40	22	130
25	45	25	130
25	50	29	130
25	55	32	130



Snap-in capacitors are also available with 3 terminals (length (4.5-1) mm). PET insulation is marked with label "PET" on the sleeve.

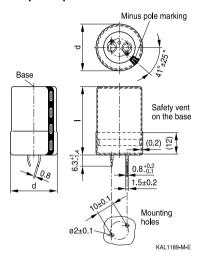
Dimensio	Dimensions (mm)		Packing
d +1	I±2	weight (g)	units (pcs.)
30	25	17	80
30	30	23	80
30	35	29	80
30	40	36	80
30	45	41	80
30	50	46	80
30	55	53	80
35	25	22	60
35	30	29	60
35	35	36	60
35	40	41	60
35	45	56	60
35	50	70	60
35	55	81	60







Snap-in capacitors with PVC insulation and PET insulation cap on terminal side



Base

Safety vent on the base

0.8 + 0.2 | \tilde{Q} \ti

Snap-in terminals, length (6.3 + 1/-1.4) mm. Also available in a shorter version with a length of (4.5 - 1.4) mm. PET insulation cap is positioned under the insulation sleeve.

Snap-in capacitors are also available with 3 terminals (length (4.5-1.4) mm). PET insulation cap is positioned under the insulation sleeve.

Dimensions (mm)		Approx.	Packing
d +1.4	I +2.2/-2	weight (g)	units (pcs.)
22	25	9	160
22	30	12	160
22	35	15	160
22	40	18	160
22	45	20	160
22	50	24	160
25	25	13	115
25	30	17	115
25	35	19	115
25	40	22	115
25	45	25	115
25	50	29	115
25	55	32	115

Dimensions (mm)		Approx.	Packing
d +1.4	I +2.2/-2	weight (g)	units (pcs.)
30	25	17	80
30	30	23	80
30	35	29	80
30	40	36	80
30	45	41	80
30	50	46	80
30	55	53	80
35	25	22	60
35	30	29	60
35	35	36	60
35	40	41	60
35	45	56	60
35	50	70	60
35	55	81	60





Ultra compact - 85 °C

Packing of snap-in capacitors



For ecological reasons the packing is pure cardboard. Components can be withdrawn (in full or in part) in the correct position for insertion.

Ordering codes for terminal styles and insulation features

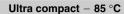
Identification in 3rd block of ordering code

Snap-in capacitors					
Terminal version Insulation version					
	PVC	PET	PVC plus PET cap		
Standard terminals 6.3 mm	M000	M060	M080		
Short terminals 4.5 mm	M007	M067	M087		
3 terminals 4.5 mm	M002	M062	M082		

Ordering examples:

B43305A9107M007	}	snap-in capacitor with short terminals and standard PVC insulation
B43305A9107M062	}	snap-in capacitor with 3 terminals and PET insulation
B43305A9107M080	}	snap-in capacitor with standard terminals and PVC insulation with
		additional PET insulation cap on terminal side







Overview of available types

V _R (V DC)	200	250	400	450
	Case dimension	ons d × I (mm)	·	·
C _R (μF)				
68			22 × 25	22 × 25
82			22 × 25	22 × 25
100			22 × 25	22 × 25
120			22 × 25	22 × 30
				25 × 25
150			22 × 30	22 × 35
				25 × 30
180			22 × 30	22 × 40
			25 × 25	25 × 30
				30 × 25
220			22 × 35	22 × 45
			25×30	25 × 35
				30 × 30
270		22 × 25	22 × 45	22 × 50
			25×35	25 × 40
			30 × 25	30 × 30
				35 × 25
330	22 × 25	22 × 30	22 × 50	25 × 50
		25 × 25	25 × 40	30 × 35
			30 × 30	35 × 30
			35 × 25	
390	22 × 25	22 × 30	25×45	25 × 55
		25 × 25	30 × 35	30 × 40
			35 × 30	35 × 30
470	22 × 30	22 × 35	25 × 50	30 × 45
	25 × 25	25 × 30	30 × 40	35 × 35
			35 × 30	
560	22 × 35	22 × 40	30 × 45	30 × 50
	25 × 30	25 × 35	35×35	35 × 40
		30 × 25		
680	22 × 40	22 × 45	30 × 50	35 × 45
	25 × 30	25 × 40	35 × 40	
	30 × 25	30 × 30		
820	22 × 45	25 × 45	30 × 55	35 × 55
	25×35	30 × 35	35 × 45	
	30 × 30	35 × 25		



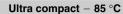


Ultra compact - 85 °C

V _R (V DC)	200	250	400	450
	Case dimension	ons d×I (mm)		
C _R (μF)				
1000	22 × 50	25 × 50	35 × 50	
	25 × 40	30 × 35		
	30 × 30	35 × 30		
	35 × 25			
1200	25 × 45	25 × 55		
	30×35	30 × 40		
	35×30	35 × 35		
1500	25 × 55	30 × 50		
	30 × 40	35 × 40		
	35×30			
1800	30 × 45	30 × 55		
	35×35	35×45		
2200	30 × 55	35 × 50		
	35×40			
2700	35 × 50			
3300	35 × 55			

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} dimensions Z _{max} 100 Hz 100 H								
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	C_R	Case	ESR _{typ}	Z _{max}		I _{AC,R} 1)	Ordering code	
μF mm mΩ mΩ A A V_R = 200 V DC 330 22 × 25 380 520 2.72 1.38 B43305A2337M0*# 390 22 × 25 320 440 2.95 1.50 B43305A2397M0*# 470 22 × 30 270 370 3.38 1.72 B43305A2477M0*# 470 25 × 25 270 370 3.33 1.70 B43305A2567M0*# 560 25 × 35 230 310 3.79 1.93 B43305A2567M0*# 680 25 × 30 230 310 3.79 1.93 B43305A2567M0*# 680 25 × 30 190 260 4.34 2.21 B43305A2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305A2867M0*# 820 25 × 35 150 210 4.90 2.50 B43305A2867M0*# 820 25 × 35 150 210 4.76 2.42 B43305C2867M0*#	100 Hz	dimensions	100 Hz	10 kHz	100 Hz	100 Hz	(composition see	
Name	20 °C	$d \times I$	20 °C	20 °C	60 °C	85 °C	below)	
330 22 × 25 380 520 2.72 1.38 B43305A2337M0*# 390 22 × 25 320 440 2.95 1.50 B43305A2397M0*# 470 22 × 30 270 370 3.38 1.72 B43305A2477M0*# 470 25 × 25 270 370 3.33 1.70 B43305B2477M0*# 560 22 × 35 230 310 3.82 1.95 B43305B2567M0*# 680 25 × 30 230 310 3.79 1.93 B43305B2567M0*# 680 25 × 30 190 260 4.34 2.21 B43305A2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305A2687M0*# 820 25 × 35 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.76 2.42 B43305C2287M0*# <td< td=""><td>μF</td><td>mm</td><td>mΩ</td><td>mΩ</td><td>Α</td><td>Α</td><td></td></td<>	μF	mm	mΩ	mΩ	Α	Α		
390 22 × 25 320 440 2.95 1.50 B43305A2397M0*# 470 22 × 30 270 370 3.38 1.72 B43305A2477M0*# 470 25 × 25 270 370 3.33 1.70 B43305B2477M0*# 560 22 × 35 230 310 3.82 1.95 B43305A2567M0*# 680 25 × 30 230 310 3.79 1.93 B43305A22667M0*# 680 22 × 40 190 260 4.34 2.21 B43305A2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305A2687M0*# 680 30 × 25 190 260 3.82 1.95 B43305A287M0*# 820 22 × 45 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.76 2.42 B43305A2108M0*# 820 30 × 30 150 210 4.37 2.23 B43305A2108M0*# <td< td=""><td colspan="8">V_R = 200 V DC</td></td<>	V _R = 200 V DC							
470 22 × 30 270 370 3.38 1.72 B43305A2477M0*# 470 25 × 25 270 370 3.33 1.70 B43305B2477M0*# 560 22 × 35 230 310 3.82 1.95 B43305A2567M0*# 560 25 × 30 230 310 3.79 1.93 B43305A2667M0*# 680 22 × 40 190 260 4.34 2.21 B43305A2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305A2687M0*# 680 30 × 25 190 260 3.82 1.95 B43305A2687M0*# 820 22 × 45 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.76 2.42 B43305A2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305A2108M0*# 1000 25 × 40 130 180 5.54 2.83 B43305A2108M0*# <t< td=""><td>330</td><td>22 × 25</td><td>380</td><td>520</td><td>2.72</td><td>1.38</td><td>B43305A2337M0*#</td></t<>	330	22 × 25	380	520	2.72	1.38	B43305A2337M0*#	
470 25 × 25 270 370 3.33 1.70 B43305B2477M0*# 560 22 × 35 230 310 3.82 1.95 B43305A2567M0*# 560 25 × 30 230 310 3.79 1.93 B43305B2567M0*# 680 22 × 40 190 260 4.34 2.21 B43305B2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305B2687M0*# 680 30 × 25 190 260 3.82 1.95 B43305C2687M0*# 820 22 × 45 150 210 4.90 2.50 B43305A22827M0*# 820 25 × 35 150 210 4.76 2.42 B43305B2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305C2827M0*# 1000 22 × 50 130 180 5.54 2.83 B43305B218M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B218M0*# <t< td=""><td>390</td><td>22 × 25</td><td>320</td><td>440</td><td>2.95</td><td>1.50</td><td>B43305A2397M0*#</td></t<>	390	22 × 25	320	440	2.95	1.50	B43305A2397M0*#	
560 22 × 35 230 310 3.82 1.95 B43305A2567M0*# 560 25 × 30 230 310 3.79 1.93 B43305B2567M0*# 680 22 × 40 190 260 4.34 2.21 B43305A2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305B2687M0*# 680 30 × 25 190 260 3.82 1.95 B43305C2687M0*# 820 22 × 45 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.76 2.42 B43305B2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305A2108M0*# 820 30 × 30 150 210 4.37 2.23 B43305A2108M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 35 × 25 130 180 4.83 2.46 B43305D2108M0*# <	470	22 × 30	270	370	3.38	1.72	B43305A2477M0*#	
560 25 × 30 230 310 3.79 1.93 B43305B2567M0*# 680 22 × 40 190 260 4.34 2.21 B43305A2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305B2687M0*# 680 30 × 25 190 260 3.82 1.95 B43305C2687M0*# 820 22 × 45 150 210 4.90 2.50 B43305B2287M0*# 820 25 × 35 150 210 4.76 2.42 B43305B2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305A2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305A22827M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1200 35 × 45 110 150 6.10 3.11 B43305A2128M0*#	470	25 × 25	270	370	3.33	1.70	B43305B2477M0*#	
680 22 × 40 190 260 4.34 2.21 B43305A2687M0*# 680 25 × 30 190 260 4.18 2.13 B43305B2687M0*# 680 30 × 25 190 260 3.82 1.95 B43305C2687M0*# 820 22 × 45 150 210 4.90 2.50 B43305A2827M0*# 820 30 × 30 150 210 4.76 2.42 B43305C2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305A2108M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B218M0*#	560	22 × 35	230	310	3.82	1.95	B43305A2567M0*#	
680 25 × 30 190 260 4.18 2.13 B43305B2687M0*# 680 30 × 25 190 260 3.82 1.95 B43305C2687M0*# 820 22 × 45 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.76 2.42 B43305B2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305C2827M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305A2128M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B218M0*#	560	25 × 30	230	310	3.79	1.93	B43305B2567M0*#	
680 30 × 25 190 260 3.82 1.95 B43305C2687M0*# 820 22 × 45 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.76 2.42 B43305B2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305C2827M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305A2128M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*#	680	22 × 40	190	260	4.34	2.21	B43305A2687M0*#	
820 22 × 45 150 210 4.90 2.50 B43305A2827M0*# 820 25 × 35 150 210 4.76 2.42 B43305B2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305C2827M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305A2128M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 35 × 30 85 120 7.15 3.64 B43305B2158M0*#	680	25 × 30	190	260	4.18	2.13	B43305B2687M0*#	
820 25 × 35 150 210 4.76 2.42 B43305B2827M0*# 820 30 × 30 150 210 4.37 2.23 B43305C2827M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305D2108M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305A2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*#	680	30 × 25	190	260	3.82	1.95	B43305C2687M0*#	
820 30 × 30 150 210 4.37 2.23 B43305C2827M0*# 1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305D2108M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305A2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305A2188M0*#	820	22 × 45	150	210	4.90	2.50	B43305A2827M0*#	
1000 22 × 50 130 180 5.54 2.83 B43305A2108M0*# 1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305D2108M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305A2158M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305A2188M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*#	820	25 × 35	150	210	4.76	2.42	B43305B2827M0*#	
1000 25 × 40 130 180 5.42 2.76 B43305B2108M0*# 1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305D2108M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305C2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305B2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305A2188M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*#	820	30 × 30	150	210	4.37	2.23	B43305C2827M0*#	
1000 30 × 30 130 180 4.83 2.46 B43305C2108M0*# 1000 35 × 25 130 180 4.11 2.09 B43305D2108M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305C2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305C2158M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*#	1000	22 × 50	130	180	5.54	2.83	B43305A2108M0*#	
1000 35 × 25 130 180 4.11 2.09 B43305D2108M0*# 1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305C2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305A2158M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305A2278M0*# <	1000	25 × 40	130	180	5.42	2.76	B43305B2108M0*#	
1200 25 × 45 110 150 6.10 3.11 B43305A2128M0*# 1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305C2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305A2188M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1000	30 × 30	130	180	4.83	2.46	B43305C2108M0*#	
1200 30 × 35 110 150 5.48 2.79 B43305B2128M0*# 1200 35 × 30 110 150 4.99 2.54 B43305C2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305C2158M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1000	35 × 25	130	180	4.11	2.09	B43305D2108M0*#	
1200 35 × 30 110 150 4.99 2.54 B43305C2128M0*# 1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305C2158M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1200	25 × 45	110	150	6.10	3.11	B43305A2128M0*#	
1500 25 × 55 85 120 7.15 3.64 B43305A2158M0*# 1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305C2158M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1200	30×35	110	150	5.48	2.79	B43305B2128M0*#	
1500 30 × 40 85 120 6.74 3.44 B43305B2158M0*# 1500 35 × 30 85 120 5.58 2.84 B43305C2158M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1200	35×30	110	150	4.99	2.54	B43305C2128M0*#	
1500 35 × 30 85 120 5.58 2.84 B43305C2158M0*# 1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1500	25 × 55	85	120	7.15	3.64	B43305A2158M0*#	
1800 30 × 45 70 100 7.59 3.87 B43305A2188M0*# 1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1500	30 × 40	85	120	6.74	3.44	B43305B2158M0*#	
1800 35 × 35 70 100 6.33 3.23 B43305B2188M0*# 2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1500	35 × 30	85	120	5.58	2.84	B43305C2158M0*#	
2200 30 × 55 60 80 8.80 4.49 B43305A2228M0*# 2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1800	30 × 45	70	100	7.59	3.87	B43305A2188M0*#	
2200 35 × 40 60 80 7.22 3.68 B43305B2228M0*# 2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	1800	35×35	70	100	6.33	3.23	B43305B2188M0*#	
2700 35 × 50 45 65 8.44 4.30 B43305A2278M0*#	2200	30 × 55	60	80	8.80	4.49	B43305A2228M0*#	
	2200	35 × 40	60	80	7.22	3.68	B43305B2228M0*#	
3300 35 × 55 40 55 9.55 4.87 B43305A2338M0*#	2700	35 × 50	45	65	8.44	4.30	B43305A2278M0*#	
	3300	35×55	40	55	9.55	4.87	B43305A2338M0*#	

Composition of ordering code

* = Insulation feature

0 = PVC insulation

6 = PET insulation

8 = PVC insulation with additional PET insulation cap on terminal side

= Terminal style

0 = snap-in standard terminals (6.3 mm)

2 = snap-in 3 terminals (4.5 mm)

^{1) 120-}Hz conversion factor of ripple current: I_{AC} (120 Hz) = 1.03 · I_{AC} (100 Hz)





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Technical data and ordering codes

$\overline{C_R}$	Case	ESR _{typ}	Z _{max}	I _{AC,max}	I _{AC,R} ²⁾	Ordering code
100 Hz	dimensions	100 Hz	10 kHz	100 Hz	100 Hz	(composition see
20 °C	d×I	20 °C	20 °C	60 °C	85 °C	below)
μF	mm	mΩ	mΩ	A	A	DCIOW)
<u></u>		11122	11122			
$V_R = 250 \text{ V}$						ı
270	22 × 25	470	640	2.61	1.33	B43305E2277M0*#
330	22 × 30	380	520	3.01	1.53	B43305E2337M0*#
330	25 × 25	380	520	2.95	1.50	B43305F2337M0*#
390	22 × 30	320	440	3.27	1.67	B43305E2397M0*#
390	25 × 25	320	440	3.21	1.64	B43305F2397M0*#
470	22×35	270	370	3.72	1.90	B43305E2477M0*#
470	25 × 30	270	370	3.68	1.87	B43305F2477M0*#
560	22 × 40	230	310	4.19	2.13	B43305E2567M0*#
560	25 × 35	230	310	4.16	2.12	B43305F2567M0*#
560	30 × 25	230	310	3.62	1.84	B43305G2567M0*#
680	22 × 45	190	260	4.74	2.42	B43305E2687M0*#
680	25 × 40	190	260	4.73	2.41	B43305F2687M0*#
680	30 × 30	190	260	4.15	2.12	B43305G2687M0*#
820	25 × 45	150	210	5.34	2.72	B43305E2827M0*#
820	30 × 35	150	210	4.73	2.41	B43305F2827M0*#
820	35 × 25	150	210	3.82	1.95	B43305G2827M0*#
1000	25 × 50	130	180	6.04	3.08	B43305E2108M0*#
1000	30 × 35	130	180	5.22	2.66	B43305F2108M0*#
1000	35×30	130	180	4.69	2.39	B43305G2108M0*#
1200	25 × 55	110	150	6.77	3.45	B43305E2128M0*#
1200	30 × 40	110	150	6.29	3.21	B43305F2128M0*#
1200	35 × 35	110	150	5.32	2.71	B43305G2128M0*#
1500	30 × 50	85	120	7.41	3.78	B43305E2158M0*#
1500	35 × 40	85	120	6.13	3.13	B43305F2158M0*#
1800	30 × 55	70	100	8.31	4.24	B43305E2188M0*#
1800	35 × 45	70	100	6.91	3.52	B43305F2188M0*#
2200	35 × 50	60	80	7.83	3.99	B43305E2228M0*#

Composition of ordering code

* = Insulation feature

0 = PVC insulation

6 = PET insulation

8 = PVC insulation with additional PET insulation cap on terminal side

= Terminal style

0 = snap-in standard terminals (6.3 mm)

2 = snap-in 3 terminals (4.5 mm)

^{2) 120-}Hz conversion factor of ripple current: I_{AC} (120 Hz) = 1.03 \cdot I_{AC} (100 Hz)



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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$	
100 Hz dimensions 100 Hz 10 kHz 100 Hz 100 Hz (composition	see
20 °C d × l 20 °C 20 °C 60 °C 85 °C below)	
$\mu F \hspace{0.5cm} mm \hspace{0.5cm} m \Omega \hspace{0.5cm} m \Omega \hspace{0.5cm} A \hspace{0.5cm} A$	
V _R = 400 V DC	
68 22 × 25 1990 2690 1.28 0.65 B43305A968	6M0*#
82 22 × 25 1650 2230 1.41 0.72 B43305A982	6M0*#
100 22 × 25 1360 1830 1.55 0.79 B43305A910	7M0*#
120 22 × 25 1130 1530 1.70 0.87 B43305A912	:7M0*#
150 22 × 30 900 1220 1.98 1.01 B43305A915	7M0*#
180 22 × 30 750 1020 2.17 1.11 B43305A918	7M0*#
180 25 × 25 750 1020 2.18 1.11 B43305B918	7M0*#
220 22 × 35 620 830 2.49 1.27 B43305A922	?7M0*#
220 25 × 30 620 830 2.51 1.28 B43305B922	?7M0*#
270 22 × 45 500 680 2.92 1.49 B43305A927	7M0*#
270 25 × 35 500 680 2.89 1.47 B43305B927	7M0*#
270 30 × 25 500 680 2.79 1.42 B43305C927	'7M0*#
330 22 × 50 410 560 3.31 1.69 B43305A933	7M0*#
330 25 × 40 410 560 3.29 1.68 B43305B933	7M0*#
330 30 × 30 410 560 3.22 1.64 B43305C933	37M0*#
330 35 × 25 410 560 3.04 1.55 B43305D933	37M0*#
390 25 × 45 350 470 3.68 1.87 B43305A939	7M0*#
390 30 × 35 350 470 3.62 1.85 B43305B939	7M0*#
390 35 × 30 350 470 3.67 1.87 B43305C939	7M0*#
470 25 × 50 290 390 4.14 2.11 B43305A947	7M0*#
470 30 × 40 290 390 4.37 2.23 B43305B947	7M0*#
470 35 × 30 290 390 4.03 2.05 B43305C947	'7M0*#
560 30 × 45 240 330 4.91 2.50 B43305A956	7M0*#
560 35 × 35 240 330 4.56 2.32 B43305B956	7M0*#
680 30 × 50 200 270 5.55 2.83 B43305A968	7M0*#
680 35 × 40 200 270 5.18 2.64 B43305B968	7M0*#
820 30 × 55 170 230 6.23 3.18 B43305A982	7M0*#
820 35 × 45 170 230 5.85 2.98 B43305B982	7M0*#
1000 35 × 50 140 190 6.63 3.38 B43305A910	8M0*#

Composition of ordering code

* = Insulation feature

0 = PVC insulation

6 = PET insulation

8 = PVC insulation with additional PET insulation cap on terminal side

= Terminal style

0 = snap-in standard terminals (6.3 mm)

2 = snap-in 3 terminals (4.5 mm)

^{3) 120-}Hz conversion factor of ripple current: I_{AC} (120 Hz) = 1.03 \cdot I_{AC} (100 Hz)





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Technical data and ordering codes

C _R	Case	ESR _{typ}	Z _{max}	I _{AC,max}	I _{AC,R} ⁴⁾	Ordering code
100 Hz	dimensions	100 Hz	10 kHz	100 Hz	100 Hz	(composition see
20 °C	d×I	20 °C	20 °C	60 °C	85 °C	below)
μF	mm	mΩ	mΩ	Α	Α	,
$V_{R} = 450 \text{ V}$	DC	_	•			
68	22 × 25	1990	2800	1.37	0.70	B43305A5686M0*#
82	22 × 25	1650	2320	1.50	0.76	B43305A5826M0*#
100	22 × 25	1360	1900	1.66	0.85	B43305A5107M0*#
120	22 × 30	1130	1590	1.90	0.97	B43305A5127M0*#
120	25 × 25	1130	1590	1.90	0.97	B43305B5127M0*#
150	22 × 35	900	1270	2.20	1.12	B43305A5157M0*#
150	25 × 30	900	1270	2.21	1.13	B43305B5157M0*#
180	22 × 40	750	1060	2.48	1.26	B43305A5187M0*#
180	25 × 30	750	1060	2.42	1.23	B43305B5187M0*#
180	30 × 25	750	1060	2.49	1.27	B43305C5187M0*#
220	22 × 45	620	870	2.82	1.44	B43305A5227M0*#
220	25 × 35	620	870	2.78	1.41	B43305B5227M0*#
220	30 × 30	620	870	2.87	1.46	B43305C5227M0*#
270	22 × 50	500	710	3.20	1.63	B43305A5277M0*#
270	25 × 40	500	710	3.17	1.62	B43305B5277M0*#
270	30 × 30	500	710	3.18	1.62	B43305C5277M0*#
270	35 × 25	500	710	3.04	1.55	B43305D5277M0*#
330	25 × 50	410	580	3.70	1.88	B43305A5337M0*#
330	30 × 35	410	580	3.64	1.86	B43305B5337M0*#
330	35 × 30	410	580	3.73	1.90	B43305C5337M0*#
390	25 × 55	350	490	4.11	2.09	B43305A5397M0*#
390	30 × 40	350	490	4.36	2.22	B43305B5397M0*#
390	35 × 30	350	490	4.06	2.07	B43305C5397M0*#
470	30 × 45	290	410	4.92	2.51	B43305A5477M0*#
470	35×35	290	410	4.62	2.35	B43305B5477M0*#
560	30 × 50	240	340	5.50	2.81	B43305A5567M0*#
560	35 × 40	240	340	5.20	2.65	B43305B5567M0*#
680	35 × 45	200	280	5.89	3.00	B43305A5687M0*#
820	35 × 55	170	240	6.79	3.46	B43305A5827M0*#

Composition of ordering code

* = Insulation feature

0 = PVC insulation

6 = PET insulation

8 = PVC insulation with additional PET insulation cap on terminal side

= Terminal style

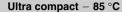
0 = snap-in standard terminals (6.3 mm)

2 = snap-in 3 terminals (4.5 mm)

^{4) 120-}Hz conversion factor of ripple current: I_{AC} (120 Hz) = 1.03 \cdot I_{AC} (100 Hz)



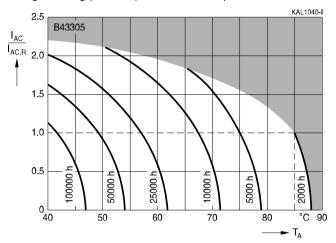




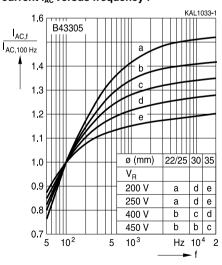


Useful life1)

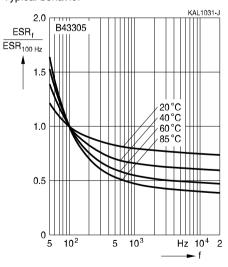
depending on ambient temperature T_A under ripple current operating conditions Voltage derating (0.93 \cdot V_B) enables 105 $^{\circ}$ C operation



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



Frequency characteristics of ESR Typical behavior



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

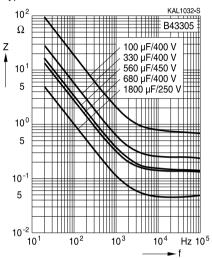




Ultra compact - 85 °C

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.





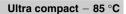
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Product safety

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







Topic Active	Safety information Avoid overload of the capacitors.	Reference chapter "General technical information" 8.2
flammability		"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"



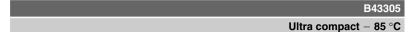


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Symbols and terms

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
1	Current	Strom
I_{AC}	Alternating current (ripple current)	Wechselstrom
$I_{\text{AC,rms}}$	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
l _{leak}	Leakage current	Reststrom
I _{leak,op}	Operating leakage current	Betriebsreststrom
1	Case length, nominal dimension	Gehäuselänge, Nennmaß
I _{max}	Maximum case length (without	Maximale Gehäuselänge (ohne Anschlüsse
	terminals and mounting stud)	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
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
$tan \ \delta$	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.



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