

Aluminum electrolytic capacitors

Snap-in capacitors

Series/Type: B43644 Date: December 2019

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Snap-in capacitors

Very compact, long useful life - 105 °C

Long-life grade capacitors

Applications

- Frequency converters
- Solar inverters
- Uninterruptible power supplies
- Professional power supplies
- Medical appliances
- Not for automotive applications unless otherwise specified

Features

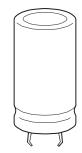
- Extremely high CV product, Very compact
- High reliability
- Long useful life
- High ripple current capability
- Capacitors with all insulation versions pass the needle flame test according to IEC 60695-11-5 for all flame exposure times up to 120 s
- RoHS-compatible

Construction

- Charge/discharge-proof, polar
- Aluminum case, fully insulated with PET
- Version with PVC insulation available upon request
- Version with PVC insulation and additional PET insulation cap on terminal side available for insulating the capacitor from the PCB
- Other case dimensions with length I > 55 mm are available upon request
- 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 availables 6.2 and 4.5 mm
 - 2 lengths available: 6.3 and 4.5 mm
- 3 terminals to ensure correct insertion: length 4.5 mm





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Specifications and characteristics in brief

	1							
Rated voltage V _R	200 500 V DC	200 500 V DC						
Surge voltage V _S	$1.15 \cdot V_R$ (for V_R	≤ 250 V I	DC)					
	$1.10 \cdot V_{R}$ (for V_{R}	1.10 \cdot V _R (for V _R \geq 400 V DC)						
Rated capacitance C_{R}	47 2700 μF							
Capacitance tolerance	±20% ≙ M							
Dissipation factor tan $\boldsymbol{\delta}$	$V_R \le 250 \text{ V DC: } \tan \delta \le 0.15$							
(20 °C, 120 Hz)	V _R ≥ 400 V DC: t	$V_R \ge 400 \text{ V DC}$: tan $\delta \le 0.20$						
Leakage current I _{leak} (5 min, 20 °C)	$I_{\text{leak}} \leq 0.3 \ \mu\text{A} \cdot \left(-\frac{1}{2}\right)$	$\frac{C_R}{\mu F} \cdot \frac{V_R}{V} \Big)^C$).7 +4 μA					
Self-inductance ESL	Approx. 20 nH							
Useful life ¹⁾	Requirements:							
105 °C; V _R ; I _{AC,R}	> 5000 h	∆C/C	≤ 20% of i	initial value	е			
		tan $\delta \leq 2$ times initial specified limit						
		$I_{leak} \leq initial specified limit$						
Voltage endurance test		Post tes	t requireme	nts:				
105 °C; V _R	2000 h	$ \Delta C/C \leq 10\%$ of initial value						
		tan $\delta \leq 1.3$ times initial specified limit						
		I _{leak}	\leq initial sp	ecified lim	nit			
Vibration resistance test	To IEC 60068-2-	6, test Fc):					
(standard version)	Frequency range	e 10 Hz	. 55 Hz, dis _l	placement	amplitude 0.35	mm,		
	acceleration max							
	Capacitor mount	ed by its	body which	is rigidly o	clamped to the w	vork		
	surface.							
Characteristics at low	Max. impedance	• V _R		≤ 250 V	400 450 V	500 V		
temperature	ratio at 100 Hz		/ 7					
			° _C / Z ₂₀ ° _C	3	5	7		
		Z -40	° _C / Z ₂₀ ° _C	7	10	14		
IEC climatic category	To IEC 60068-1:							
	$V_{\rm B} \le 450 \text{ V DC}$: 4		S (−40 °C/+	105 °C/56	days damp hea	t test)		
	$V_{\rm R} = 500 \text{ V DC}$: 2		•		•	,		
	The capacitors c					,		
	−40 °C to +105 °	°C but the	e impedance	e at -40 °	C must be taker	n into		
	consideration.	10 °C to +105 °C but the impedance at -40 °C must be taken into nsideration.						

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

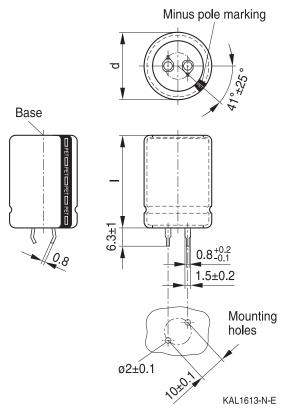


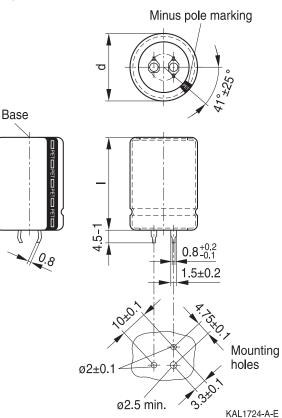


Very compact, long useful life - 105 °C

Dimensional drawings

Snap-in capacitors with standard insulation (PET)





Snap-in terminals, length (6.3 ± 1) mm.

Also available in a shorter version with a length of (4.5 - 1) mm.

Insulation is marked with "PET" on the sleeve. Safety vent on the base.

Dimensions (mm)		Approx.	Packing units	
d +1	l ±2	weight (g)	(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). Insulation is marked with "PET" on the sleeve. Safety vent on the base.

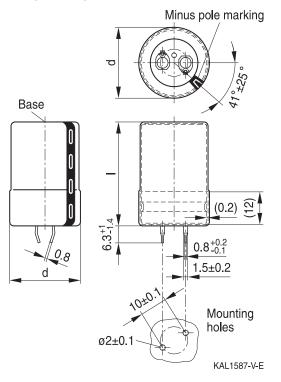
Dimensions (mm)		Approx.	Packing units
d +1	l ±2	weight (g)	(pcs.)
30	25	17	80
30	30	23	80
30	35	29	80
30	40	36	80
30	45	41	80
30	50	46	80
30	55	53	80
35	25	22	60
35	30	29	60
35	35	36	60
35	40	41	60
35	45	56	60
35	50	70	60
35	55	81	60

Please read *Cautions and warnings* and *Important notes* at the end of this document.

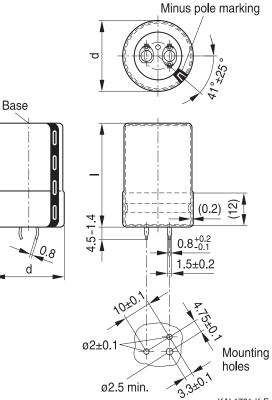


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Snap-in capacitors with PVC insulation and PET insulation cap on terminal side



KAL1721-K-E

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. Safety vent on the base.

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				

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	l +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

Please read Cautions and warnings and Important notes at the end of this document.





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Packing of snap-in capacitors



For ecological reasons the packing is pure cardboard.

Ordering codes for terminal styles and insulation features

Identification in 3rd block of ordering code

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

Ordering examples:

B43644A5107M067	}	snap-in capacitor with short terminals and PET insulation
B43644A5107M062	}	snap-in capacitor with 3 terminals and PET insulation
B43644A5107M080	}	snap-in capacitor with standard terminals and PVC insulation with
		additional PET insulation cap on terminal side



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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)	200	250	400	450	500				
	Case dimensions $d \times I$ (mm)								
C _R (μF)									
47					22 × 25				
56					22 × 30				
68				22×25	22 × 30				
					25×25				
82				22×25	22 × 35				
					25 imes 30				
100			22 × 25	22×30	22 × 40				
				25×25	25 imes 35				
					30×25				
120			22 × 30	22 × 35	22 × 45				
			25×25	25 imes 25	25 imes 35				
					30 imes 30				
150			22×30	22×40	25 imes 45				
			25 imes 25	25 imes 30	30 imes 30				
				30×25	35 imes 25				
180			22×35	22×45	25 imes 50				
			25 imes 30	25 imes 35	30 imes 35				
			30 × 25	30 × 25	35 imes 30				
220		22×25	22×40	22×50	25×55				
			25×35	25×40	30 × 40				
			30 × 25	30×30	35 imes 35				
				35 × 25					
270		22×30	22×50	25×45	30 imes 50				
			25×40	30 imes 35	35 imes 40				
			30×30	35 imes 30					
			35 × 25						
330	22 × 25	22×30	25 × 45	25×55	30×55				
		25 × 25	30 × 35	30 × 40	35 × 45				
			35 × 25	35 × 30					
390	22×30	22 × 35	25 × 50	30 × 45	35×50				
		25×30	30 × 35	35 × 35					
			35 × 30						
470	22×30	22 × 40	30 × 45	30 × 50	35×55				
	25 × 25	25 × 30	35 × 35	35 × 40					
		30×25							





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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)	200	250	400	450	500					
	Case dimen	Case dimensions $d \times I$ (mm)								
C _R (μF)										
560	22 × 35	22 × 45	30 × 50	35 × 45						
	25 imes 30	25 imes 35	35 imes 40							
		30 imes 30								
680	22 × 40	22 × 50	30 × 55	35 × 55						
	25 imes 35	25 imes 40	35 imes 45							
	30 imes 25	30 imes 30								
		35×25								
820	22×45	25×45	35×50							
	25 imes 40	30 imes 35								
	30 imes 30	35 imes 30								
1000	25 imes 45	25×55								
	30 imes 35	30 imes 40								
	35 imes 25	35 imes 30								
1200	25 imes 50	30 imes 45								
	30 imes 35	35 imes 35								
	35 imes 30									
1500	30 imes 45	30×55								
	35 imes 35	35 imes 40								
1800	30 imes 50	35 imes 50								
	35 imes 40									
2200	30 × 55	35 × 55								
	35 imes 45									
2700	35 × 50									



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Technical data and ordering codes

	Case	ESR _{tvp}	ESR _{typ}	Z _{max}	I _{AC,max}	I _{AC,max}	I _{AC,R}	Ordering code
100 Hz	dimensions	100 Hz	300 Hz	10 kHz	100 Hz	100 Hz	100 Hz	(composition see
20 °C	d×I	20 °C	60 °C	20 °C	60 °C	85 °C	105 °C	below)
μF	mm	mΩ	mΩ	mΩ	А	А	А	,
$V_{R} = 200$	V DC	I						
330	22 × 25	290	100	440	2.71	2.01	1.10	B43644A2337M0*#
390	22×30	250	80	370	3.08	2.29	1.25	B43644A2397M0*#
470	22×30	210	70	310	3.54	2.62	1.42	B43644A2477M0*#
470	25×25	220	80	330	3.31	2.46	1.34	B43644B2477M0*#
560	22×35	170	60	260	4.07	3.01	1.64	B43644A2567M0*#
560	25×30	180	65	270	3.80	2.82	1.54	B43644B2567M0*#
680	22×40	140	50	220	4.75	3.51	1.91	B43644A2687M0*#
680	25×35	150	50	220	4.42	3.28	1.79	B43644B2687M0*#
680	30 × 25	170	75	260	3.87	2.88	1.56	B43644C2687M0*#
820	22×45	120	40	180	5.53	4.09	2.22	B43644A2827M0*#
820	25×40	120	45	190	5.11	3.80	2.07	B43644B2827M0*#
820	30×30	130	55	210	4.51	3.36	1.83	B43644C2827M0*#
1000	25×45	100	36	160	5.97	4.43	2.41	B43644A2108M0*#
1000	30×35	110	45	170	5.23	3.90	2.12	B43644B2108M0*#
1000	35×25	140	80	220	4.33	3.22	1.74	B43644C2108M0*#
1200	25×50	85	32	130	6.89	5.10	2.77	B43644A2128M0*#
1200	30×35	100	45	160	5.74	4.27	2.31	B43644B2128M0*#
1200	35×30	110	60	170	5.09	3.80	2.19	B43644C2128M0*#
1500	30×45	75	34	120	7.03	5.23	3.02	B43644A2158M0*#
1500	35×35	90	50	140	5.95	4.44	2.56	B43644B2158M0*#
1800	30×50	65	30	100	8.02	5.96	3.43	B43644A2188M0*#
1800	35×40	75	40	120	6.80	5.07	2.92	B43644B2188M0*#
2200	30×55	55	26	85	9.24	6.86	3.94	B43644A2228M0*#
2200	35×45	60	36	100	7.76	5.79	3.33	B43644B2228M0*#
2700	35 imes 50	55	32	85	8.86	6.59	3.78	B43644A2278M0*#

Composition of ordering code

* = Insulation feature

- 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)
 - 7 = snap-in short terminals (4.5 mm)





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Technical data and ordering codes

C _R	Case	ESR _{typ}	ESR _{typ}	Z _{max}	I _{AC,max}	I _{AC,max}	I _{AC,R}	Ordering code
100 Hz	dimensions	100 Hz	300 Hz	10 kHz	100 Hz	100 Hz	100 Hz	(composition see
20 °C	d×l	20 °C	60 °C	20 °C	60 °C	85 °C	105 °C	below)
μF	mm	mΩ	mΩ	mΩ	A	A	A	
$V_{\rm R} = 250$						<u> </u>		
220	22 × 25	350	110	500	2.25	1.68	0.91	B43644E2227M0*#
270	22×30	290	90	400	2.63	1.96	1.07	B43644E2277M0*#
330	22×30	240	80	340	3.07	2.28	1.24	B43644E2337M0*#
330	25×25	250	90	350	2.91	2.17	1.18	B43644F2337M0*#
390	22×35	200	65	290	3.50	2.60	1.41	B43644E2397M0*#
390	25×30	210	70	290	3.31	2.47	1.34	B43644F2397M0*#
470	22×40	170	55	240	4.07	3.02	1.64	B43644E2477M0*#
470	25×30	180	65	250	3.78	2.80	1.52	B43644F2477M0*#
470	30 × 25	190	80	270	3.47	2.59	1.40	B43644G2477M0*#
560	22×45	140	45	200	4.70	3.48	1.89	B43644E2567M0*#
560	25×35	150	55	210	4.33	3.22	1.74	B43644F2567M0*#
560	30 × 30	150	60	220	3.99	2.98	1.62	B43644G2567M0*#
680	22×50	120	40	170	5.51	4.08	2.21	B43644E2687M0*#
680	25×40	120	45	180	5.05	3.75	2.03	B43644F2687M0*#
680	30 × 30	130	60	200	4.44	3.31	1.79	B43644G2687M0*#
680	35×25	150	80	230	4.00	2.99	1.61	B43644H2687M0*#
820	25×45	100	40	150	5.87	4.35	2.35	B43644E2827M0*#
820	30×35	110	50	170	5.13	3.82	2.07	B43644F2827M0*#
820	35×30	120	60	180	4.68	3.50	2.02	B43644G2827M0*#
1000	25×55	80	30	120	6.95	5.16	2.79	B43644E2108M0*#
1000	30 × 40	90	40	140	5.96	4.44	2.56	B43644F2108M0*#
1000	35×30	110	65	170	5.04	3.76	2.16	B43644G2108M0*#
1200	30×45	75	36	120	6.85	5.09	2.93	B43644E2128M0*#
1200	35×35	90	50	140	5.82	4.34	2.49	B43644F2128M0*#
1500	30×55	60	28	95	8.24	6.13	3.53	B43644E2158M0*#
1500	35×40	75	45	120	6.78	5.05	2.89	B43644F2158M0*#
1800	35×50	60	32	90	8.06	6.02	3.46	B43644E2188M0*#
2200	35 imes 55	50	30	80	9.21	6.85	3.93	B43644E2228M0*#

Composition of ordering code

* = Insulation feature

- 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)

7 = snap-in short terminals (4.5 mm)



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Technical data and ordering codes

		_	-					-
C _R	Case	ESR _{typ}	ESR_{typ}	Z _{max}	I _{AC,max}	I _{AC,max}	I _{AC,R}	Ordering code
100 Hz	dimensions	100 Hz	300 Hz	10 kHz	100 Hz	100 Hz	100 Hz	(composition see
20 °C	$d \times I$	20 °C	60 °C	20 °C	60 °C	85 °C	105 °C	below)
μF	mm	mΩ	mΩ	mΩ	А	А	А	
$V_{R} = 400$	V DC							
100	22 × 25	870	230	1250	1.62	1.20	0.65	B43644A9107M0*#
120	22×30	730	190	1040	1.85	1.38	0.75	B43644A9127M0*#
120	25×25	730	200	1050	1.81	1.35	0.73	B43644B9127M0*#
150	22×30	620	150	900	2.19	1.63	0.88	B43644E9157M0*#
150	25×25	630	160	920	2.12	1.58	0.85	B43644F9157M0*#
180	22×35	520	130	750	2.52	1.88	1.01	B43644E9187M0*#
180	25 imes 30	490	140	710	2.47	1.83	0.99	B43644B9187M0*#
180	30×25	500	150	730	2.39	1.78	0.97	B43644C9187M0*#
220	22×40	420	100	620	2.97	2.22	1.19	B43644E9227M0*#
220	25 imes 35	400	110	580	2.88	2.14	1.16	B43644B9227M0*#
220	30×25	440	120	650	2.70	2.01	1.08	B43644F9227M0*#
270	22×50	320	90	470	3.60	2.66	1.44	B43644A9277M0*#
270	25×40	330	90	480	3.40	2.52	1.37	B43644B9277M0*#
270	30×30	340	110	500	3.19	2.37	1.28	B43644C9277M0*#
270	35×25	350	120	520	3.05	2.27	1.23	B43644D9277M0*#
330	25×45	290	75	420	3.91	2.92	1.57	B43644E9337M0*#
330	30×35	280	85	410	3.71	2.75	1.49	B43644B9337M0*#
330	35×25	320	110	480	3.38	2.52	1.36	B43644F9337M0*#
390	25×50	240	60	360	4.51	3.36	1.81	B43644E9397M0*#
390	30×35	250	75	380	4.11	3.07	1.65	B43644F9397M0*#
390	35×30	250	90	370	3.91	2.90	1.67	B43644C9397M0*#
470	30×45	200	60	290	4.89	3.63	2.09	B43644A9477M0*#
470	35 imes 35	210	75	310	4.49	3.34	1.92	B43644B9477M0*#
560	30×50	170	55	240	5.63	4.18	2.41	B43644A9567M0*#
560	35×40	170	60	260	5.13	3.81	2.20	B43644B9567M0*#
680	30×55	140	45	220	6.42	4.78	2.75	B43644E9687M0*#
680	35×45	140	55	220	5.92	4.40	2.53	B43644A9687M0*#
820	35×50	130	45	190	6.69	4.99	2.86	B43644E9827M0*#

Composition of ordering code

- * = Insulation feature
 - 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)

7 = snap-in short terminals (4.5 mm)





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Technical data and ordering codes

C _R	Case	ESR _{typ}	ESR _{typ}	Z _{max}	I _{AC,max}	I _{AC,max}	I _{AC,R}	Ordering code
100 Hz	dimensions	100 Hz	300 Hz	10 kHz	100 Hz	100 Hz	100 Hz	(composition see
20 °C	d×l	20 °C	60 °C	20 °C	60 °C	85 °C	105 °C	below)
μF	mm	mΩ	mΩ	mΩ	А	А	А	,
V _R = 450		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	
68	22 × 25	1430	360	2140	1.26	0.94	0.51	B43644A5686M0*#
82	22×25	1240	290	1900	1.46	1.09	0.59	B43644E5826M0*#
100	22×30	970	250	1460	1.70	1.26	0.69	B43644A5107M0*#
100	25×25	980	260	1470	1.67	1.24	0.67	B43644B5107M0*#
120	22×35	810	210	1220	1.96	1.45	0.79	B43644A5127M0*#
120	25×25	860	210	1300	1.91	1.43	0.77	B43644E5127M0*#
150	22×40	650	170	980	2.35	1.74	0.95	B43644A5157M0*#
150	25×30	680	170	1100	2.25	1.68	0.90	B43644E5157M0*#
150	30 × 25	670	190	1010	2.20	1.63	0.89	B43644C5157M0*#
180	22×45	540	140	810	2.74	2.02	1.10	B43644A5187M0*#
180	25×35	550	150	820	2.62	1.94	1.05	B43644B5187M0*#
180	30 × 25	590	160	890	2.49	1.86	1.00	B43644E5187M0*#
220	22×50	460	110	700	3.22	2.40	1.29	B43644E5227M0*#
220	25×40	470	110	710	3.04	2.27	1.22	B43644F5227M0*#
220	30×30	460	130	700	2.90	2.15	1.17	B43644B5227M0*#
220	35 × 25	470	150	720	2.80	2.08	1.13	B43644C5227M0*#
270	25×45	380	95	580	3.61	2.69	1.44	B43644E5277M0*#
270	30×35	370	110	570	3.38	2.51	1.36	B43644B5277M0*#
270	35×30	380	120	580	3.25	2.41	1.40	B43644C5277M0*#
330	25×55	310	75	470	4.26	3.18	1.71	B43644E5337M0*#
330	30 × 40	310	90	470	3.97	2.94	1.70	B43644A5337M0*#
330	35×30	330	100	520	3.66	2.73	1.57	B43644F5337M0*#
390	30 × 45	270	70	410	4.47	3.34	1.92	B43644E5397M0*#
390	35×35	270	90	420	4.21	3.12	1.80	B43644B5397M0*#
470	30×50	220	60	350	5.21	3.88	2.23	B43644E5477M0*#
470	35 × 40	230	75	350	4.84	3.59	2.07	B43644B5477M0*#
560	35×45	200	60	310	5.46	4.08	2.34	B43644E5567M0*#
680	35×55	160	50	240	6.47	4.81	2.77	B43644A5687M0*#
	1	•	•	•		•	•	·

Composition of ordering code

- * = Insulation feature
 - 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)
 - 7 = snap-in short terminals (4.5 mm)



B43644

Very compact, long useful life - 105 $^\circ$ C

Technical data and ordering codes

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$\begin{array}{c c c c c c c c c c c c c c c c c c c $	C _R	Case	ESR _{typ}	ESR _{typ}	Z _{max}	I _{AC,max}	I _{AC,max}	I _{AC,R}	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 $									below)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	μF	mm	mΩ	mΩ	mΩ	A	A	А	
56 22×30 1400 380 2000 1.18 1.00 0.47 $B43644J6566M0*$ # 68 22×30 1160 320 1660 1.43 1.14 0.54 $B43644J6686M0*$ # 68 25×25 1170 330 1670 1.43 1.15 0.54 $B43644J6826M0*$ # 82 22×35 960 260 1380 1.73 1.32 0.62 $B43644J6826M0*$ # 82 25×30 960 270 1380 1.73 1.31 0.62 $B43644J6826M0*$ # 100 22×40 790 220 1130 2.05 1.53 0.72 $B43644J6107M0*$ # 100 30×25 800 240 1160 2.04 1.52 0.72 $B43644J6107M0*$ # 120 22×45 660 180 940 2.37 1.77 0.84 $B43644J6127M0*$ # 120 25×35 660 190 950 2.31 1.73 0.82 $B43644J6127M0*$ # 120 25×45 530 150 760 2.74 2.04 0.97 $B43644J6157M0*$ # 150 35×25 550 180 800 2.68 1.99 0.94 $B43644J6157M0*$ # 180 30×35 450 130 650 3.05 2.27 1.17 $B43644J6187M0*$ # 180 30×35 450 130 650 3.05 2.27 1.07 $B43644J6187M0*$ # 180 30×35	$V_{R} = 500$	V DC							
68 22×30 1160 320 16601.431.140.54B43644J6686M0*#68 25×25 1170 330 16701.431.150.54B43644K6686M0*#82 22×35 96026013801.731.320.62B43644J6826M0*#82 25×30 96027013801.731.310.62B43644K6826M0*#100 22×40 79022011302.051.530.72B43644K6107M0*#100 25×35 79022011302.021.510.72B43644K6107M0*#100 30×25 80024011602.041.520.72B43644L6107M0*#120 22×45 6601809402.371.770.84B43644K6127M0*#120 25×35 6601909502.311.730.82B43644L6127M0*#120 30×30 6701909602.311.730.82B43644L6127M0*#150 30×30 5401607802.681.990.94B43644L6157M0*#150 35×25 5501808002.682.000.94B43644L6187M0*#180 25×50 4401206303.152.351.11B43644L6187M0*#180 35×30 4601406603.052.271.07B43644L6187M0*#220 25×55 3601005203.702.75	47	22×25	1680	460	2400	0.99	0.88	0.42	B43644J6476M0*#
68 25×25 117033016701.431.150.54B43644K6686M0*#82 22×35 96026013801.731.320.62B43644J6826M0*#82 25×30 96027013801.731.310.62B43644K6826M0*#100 22×40 79022011302.051.530.72B43644K6107M0*#100 25×35 79022011302.021.510.72B43644L6107M0*#100 30×25 80024011602.041.520.72B43644L6107M0*#120 22×45 6601809402.371.770.84B43644L6127M0*#120 25×35 6601909502.311.720.81B43644K6127M0*#120 25×45 5301507602.742.040.97B43644L6127M0*#150 30×30 5401607802.681.990.94B43644L6157M0*#150 35×25 5501808002.682.000.94B43644L6157M0*#180 30×35 4501306503.052.271.07B43644L6187M0*#180 35×30 4601406603.052.271.07B43644L6187M0*#220 25×55 3601005203.702.751.30B43644L6187M0*#220 35×35 3701205403.502.631	56	22×30	1400	380	2000	1.18	1.00	0.47	B43644J6566M0*#
82 22×35 960 260 1380 1.73 1.32 0.62 $B43644J6826M0*#$ 82 25×30 960 270 1380 1.73 1.31 0.62 $B43644K6826M0*#$ 100 22×40 790 220 1130 2.05 1.53 0.72 $B43644J6107M0*#$ 100 25×35 790 220 1130 2.02 1.51 0.72 $B43644L6107M0*#$ 100 30×25 800 240 1160 2.04 1.52 0.72 $B43644L6107M0*#$ 120 22×45 660 180 940 2.37 1.77 0.84 $B43644L6127M0*#$ 120 25×35 660 190 950 2.31 1.73 0.82 $B43644L6127M0*#$ 120 25×45 530 150 760 2.74 2.04 0.97 $B43644L6127M0*#$ 150 25×45 530 150 760 2.74 2.04 0.97 $B43644K6157M0*#$ 150 30×30 540 160 780 2.68 1.99 0.94 $B43644K6157M0*#$ 150 35×25 550 180 800 2.68 2.00 0.94 $B43644$ K6187M0*# 180 30×35 450 130 650 3.05 2.27 1.07 $B43644$ K6187M0*# 180 35×30 460 140 660 3.05 2.27 1.15 $B43644$ K6187M0*# 220 35×35 <	68	22×30	1160	320	1660	1.43	1.14	0.54	B43644J6686M0*#
82 25×30 960 270 1380 1.73 1.31 0.62 $B43644K6826M0*#$ 100 22×40 790 220 1130 2.05 1.53 0.72 $B43644J6107M0*#$ 100 25×35 790 220 1130 2.02 1.51 0.72 $B43644K6107M0*#$ 100 30×25 800 240 1160 2.04 1.52 0.72 $B43644L6107M0*#$ 120 22×45 660 180 940 2.37 1.77 0.84 $B43644L6127M0*#$ 120 25×35 660 190 950 2.31 1.72 0.81 $B43644L6127M0*#$ 120 25×35 660 190 950 2.31 1.73 0.82 $B43644L6127M0*#$ 150 30×30 670 190 960 2.31 1.73 0.82 $B43644L6157M0*#$ 150 30×30 540 160 780 2.68 1.99 0.94 $B43644L6157M0*#$ 150 35×25 550 180 800 2.68 2.00 0.94 $B43644L6157M0*#$ 180 25×50 440 120 630 3.15 2.35 1.11 $B43644$ 6187M0*# 180 35×30 460 140 660 3.05 2.27 1.07 $B43644$ 6187M0*# 220 25×55 360 100 520 3.70 2.75 1.30 $B43644$ 6227M0*# 220 35×35 <td>68</td> <td>25×25</td> <td>1170</td> <td>330</td> <td>1670</td> <td>1.43</td> <td>1.15</td> <td>0.54</td> <td>B43644K6686M0*#</td>	68	25×25	1170	330	1670	1.43	1.15	0.54	B43644K6686M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	82	22×35	960	260	1380	1.73	1.32	0.62	B43644J6826M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	82	25×30	960	270	1380	1.73	1.31	0.62	B43644K6826M0*#
100 30×25 800 240 1160 2.04 1.52 0.72 $B43644L6107M0*#$ 120 22×45 660 180 940 2.37 1.77 0.84 $B43644J6127M0*#$ 120 25×35 660 190 950 2.31 1.72 0.81 $B43644K6127M0*#$ 120 30×30 670 190 960 2.31 1.73 0.82 $B43644L6127M0*#$ 150 25×45 530 150 760 2.74 2.04 0.97 $B43644L6157M0*#$ 150 30×30 540 160 780 2.68 1.99 0.94 $B43644K6157M0*#$ 150 35×25 550 180 800 2.68 2.00 0.94 $B43644L6157M0*#$ 180 25×50 440 120 630 3.15 2.35 1.11 $B43644L6187M0*#$ 180 30×35 450 130 650 3.05 2.27 1.07 $B43644L6187M0*#$ 180 35×30 460 140 660 3.05 2.27 1.15 $B43644L6187M0*#$ 220 25×55 360 100 520 3.70 2.75 1.30 $B43644L6227M0*#$ 220 30×40 370 110 530 3.53 2.63 1.33 $B43644L6227M0*#$ 220 35×35 370 120 540 3.50 2.61 1.32 $B43644L6227M0*#$ 270 30×50 300 95 <td>100</td> <td>22×40</td> <td>790</td> <td>220</td> <td>1130</td> <td>2.05</td> <td>1.53</td> <td>0.72</td> <td>B43644J6107M0*#</td>	100	22×40	790	220	1130	2.05	1.53	0.72	B43644J6107M0*#
120 22×45 660180940 2.37 1.77 0.84 $B43644J6127M0^*\#$ 120 25×35 660190950 2.31 1.72 0.81 $B43644K6127M0^*\#$ 120 30×30 670190960 2.31 1.73 0.82 $B43644L6127M0^*\#$ 150 25×45 530150760 2.74 2.04 0.97 $B43644L6127M0^*\#$ 150 30×30 540160780 2.68 1.99 0.94 $B43644L6157M0^*\#$ 150 35×25 550180 800 2.68 2.00 0.94 $B43644L6157M0^*\#$ 180 25×50 440120630 3.15 2.35 1.11 $B43644J6187M0^*\#$ 180 30×35 450130650 3.05 2.27 1.07 $B43644K6187M0^*\#$ 180 35×30 460140660 3.05 2.27 1.15 $B43644L6127M0^*\#$ 220 25×55 360 100 520 3.70 2.75 1.30 $B43644L6227M0^*\#$ 220 30×40 370 110 530 3.53 2.63 1.33 $B43644L6227M0^*\#$ 270 30×50 300 90 430 4.13 3.08 1.56 $B43644L6227M0^*\#$ 270 35×40 300 95 450 4.02 3.00 1.52 $B43644L6227M0^*\#$ 330 30×55 250 75 360 4.81 3.58 $1.$	100	25 imes 35	790	220	1130	2.02	1.51	0.72	B43644K6107M0*#
12025 \times 356601909502.311.720.81B43644K6127M0*#12030 \times 306701909602.311.730.82B43644L6127M0*#15025 \times 455301507602.742.040.97B43644L6157M0*#15030 \times 305401607802.681.990.94B43644L6157M0*#15035 \times 255501808002.682.000.94B43644L6157M0*#18025 \times 504401206303.152.351.11B43644L6187M0*#18030 \times 354501306503.052.271.07B43644L6187M0*#18035 \times 304601406603.052.271.15B43644L6187M0*#22025 \times 553601005203.702.751.30B43644L6227M0*#22030 \times 403701105303.532.631.33B43644K6227M0*#22035 \times 353701205403.502.611.32B43644L6227M0*#27030 \times 50300904304.133.081.56B43644L6277M0*#33030 \times 55250753604.023.001.52B43644L6337M0*#33035 \times 45250803704.623.451.74B43644L6337M0*#39035 \times 50210703105.203.881.96	100	30 × 25	800	240	1160	2.04	1.52	0.72	B43644L6107M0*#
120 30×30 670 190 960 2.31 1.73 0.82 $B43644L6127M0^*\#$ 150 25×45 530 150 760 2.74 2.04 0.97 $B43644J6157M0^*\#$ 150 30×30 540 160 780 2.68 1.99 0.94 $B43644L6157M0^*\#$ 150 35×25 550 180 800 2.68 2.00 0.94 $B43644L6157M0^*\#$ 180 25×50 440 120 630 3.15 2.35 1.11 $B43644J6187M0^*\#$ 180 30×35 450 130 650 3.05 2.27 1.07 $B43644L6187M0^*\#$ 180 35×30 460 140 660 3.05 2.27 1.5 $B43644L6187M0^*\#$ 220 25×55 360 100 520 3.70 2.75 1.30 $B43644L6127M0^*\#$ 220 30×40 370 110 530 3.53 2.63 1.33 $B43644L6227M0^*\#$ 220 35×35 370 120 540 3.50 2.61 1.32 $B43644L6227M0^*\#$ 270 30×50 300 90 430 4.13 3.08 1.56 $B43644L6227M0^*\#$ 270 35×40 300 95 450 4.02 3.00 1.52 $B43644L6227M0^*\#$ 330 30×55 250 75 360 4.81 3.58 1.81 $B43644L6337M0^*\#$ 390 35×55 210 7	120	22×45	660	180	940	2.37	1.77	0.84	B43644J6127M0*#
150 25×45 530150760 2.74 2.04 0.97 $B43644J6157M0^*\#$ 150 30×30 540 160780 2.68 1.99 0.94 $B43644K6157M0^*\#$ 150 35×25 550 180 800 2.68 2.00 0.94 $B43644L6157M0^*\#$ 180 25×50 440 120 630 3.15 2.35 1.11 $B43644J6187M0^*\#$ 180 30×35 450 130 650 3.05 2.27 1.07 $B43644K6187M0^*\#$ 180 35×30 460 140 660 3.05 2.27 1.15 $B43644L6187M0^*\#$ 220 25×55 360 100 520 3.70 2.75 1.30 $B43644L6227M0^*\#$ 220 30×40 370 110 530 3.53 2.63 1.33 $B43644L6227M0^*\#$ 220 35×35 370 120 540 3.50 2.61 1.32 $B43644L6227M0^*\#$ 270 30×50 300 90 430 4.13 3.08 1.56 $B43644J6277M0^*\#$ 330 30×55 250 75 360 4.81 3.58 1.81 $B43644J6337M0^*\#$ 330 35×45 250 80 370 4.62 3.45 1.74 $B43644K6337M0^*\#$ 390 35×50 210 70 310 5.20 3.88 1.96 $B43644J6397M0^*\#$	120	25 imes 35	660	190	950	2.31	1.72	0.81	B43644K6127M0*#
150 30×30 5401607802.681.990.94B43644K6157M0*#150 35×25 5501808002.682.000.94B43644L6157M0*#180 25×50 4401206303.152.351.11B43644L6187M0*#180 30×35 4501306503.052.271.07B43644K6187M0*#180 35×30 4601406603.052.271.15B43644L6187M0*#220 25×55 3601005203.702.751.30B43644K6227M0*#220 30×40 3701105303.532.631.33B43644K6227M0*#220 35×35 3701205403.502.611.32B43644L6227M0*#270 30×50 300904304.133.081.56B43644L6227M0*#270 35×40 300954504.023.001.52B43644K6277M0*#330 30×55 250753604.813.581.81B43644K6337M0*#330 35×45 250803704.623.451.74B43644K6337M0*#390 35×50 210703105.203.881.96B43644L6397M0*#	120	30×30	670	190	960	2.31	1.73	0.82	B43644L6127M0*#
150 35×25 550180 800 2.68 2.00 0.94 $B43644L6157M0^*\#$ 180 25×50 440120 630 3.15 2.35 1.11 $B43644J6187M0^*\#$ 180 30×35 450130 650 3.05 2.27 1.07 $B43644K6187M0^*\#$ 180 35×30 460140 660 3.05 2.27 1.15 $B43644L6187M0^*\#$ 220 25×55 360 100 520 3.70 2.75 1.30 $B43644L6187M0^*\#$ 220 30×40 370 110 530 3.53 2.63 1.33 $B43644L6227M0^*\#$ 220 30×40 370 110 530 3.53 2.63 1.33 $B43644L6227M0^*\#$ 220 35×35 370 120 540 3.50 2.61 1.32 $B43644L6227M0^*\#$ 270 30×50 300 90 430 4.13 3.08 1.56 $B43644L6277M0^*\#$ 270 35×40 300 95 450 4.02 3.00 1.52 $B43644K6277M0^*\#$ 330 30×55 250 75 360 4.81 3.58 1.81 $B43644L6337M0^*\#$ 330 35×45 250 80 370 4.62 3.45 1.74 $B43644L6337M0^*\#$ 390 35×50 210 70 310 5.20 3.88 1.96 $B43644L6397M0^*\#$	150	25×45	530	150	760	2.74	2.04	0.97	B43644J6157M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	150	30×30	540	160	780	2.68	1.99	0.94	B43644K6157M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	150	35×25	550	180	800	2.68	2.00	0.94	B43644L6157M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	180	25×50	440	120	630	3.15	2.35	1.11	B43644J6187M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	180	30×35	450	130	650	3.05	2.27	1.07	B43644K6187M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	180	35×30	460	140	660	3.05	2.27	1.15	B43644L6187M0*#
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	220	25×55	360	100	520	3.70	2.75	1.30	B43644J6227M0*#
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	220	30 × 40	370	110	530	3.53	2.63	1.33	B43644K6227M0*#
27035 × 40300954504.023.001.52B43644K6277M0*#33030 × 55250753604.813.581.81B43644J6337M0*#33035 × 45250803704.623.451.74B43644K6337M0*#39035 × 50210703105.203.881.96B43644J6397M0*#	220	35×35	370	120	540	3.50	2.61	1.32	B43644L6227M0*#
330 30 × 55 250 75 360 4.81 3.58 1.81 B43644J6337M0*# 330 35 × 45 250 80 370 4.62 3.45 1.74 B43644K6337M0*# 390 35 × 50 210 70 310 5.20 3.88 1.96 B43644J6397M0*#	270	30×50	300	90	430	4.13	3.08	1.56	B43644J6277M0*#
330 35 × 45 250 80 370 4.62 3.45 1.74 B43644K6337M0*# 390 35 × 50 210 70 310 5.20 3.88 1.96 B43644J6397M0*#	270	35×40	300	95	450	4.02	3.00	1.52	B43644K6277M0*#
390 35 × 50 210 70 310 5.20 3.88 1.96 B43644J6397M0*#	330	30×55	250	75	360	4.81	3.58	1.81	B43644J6337M0*#
	330	35×45	250	80	370	4.62	3.45	1.74	B43644K6337M0*#
470 35×55 180 60 260 5.96 4.43 2.24 B43644J6477M0*#	390	35×50	210	70	310	5.20	3.88	1.96	B43644J6397M0*#
	470	35×55	180	60	260	5.96	4.43	2.24	B43644J6477M0*#

Composition of ordering code

* = Insulation feature

- 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)
 - 7 = snap-in short terminals (4.5 mm)





Useful life

For useful life calculations, please use our web-based "AlCap Useful Life Calculation Tool", which can be found on the Internet under the following link:

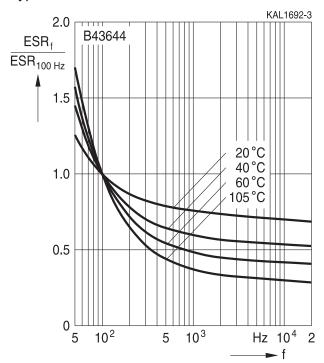
www.tdk-electronics.tdk.com/alcap

The AlCap Useful Life Calculation Tool provides calculations of useful life as well as additional data for selected capacitor types under operating conditions defined by the user.

In addition, it is possible to calculate useful life expectancies based on temperatures measured by the user in the application.

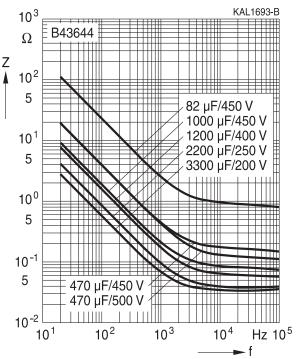
Frequency characteristics of ESR

Typical behavior



Impedance Z versus frequency f

Typical behavior at 20 °C





Very compact, long useful life - 105 °C

Cautions and warnings

Personal safety

The electrolytes used 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 are self-extinguishing.

As far as possible, we do 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 our aluminum electrolytic capacitors are continuously adapted in compliance with the TDK Electronics 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 our 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 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.





Very compact, long useful life - 105 $^{\circ}C$

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



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Topic	Safety information	Reference
		chapter "General
		technical information"
Active	Avoid overload of the capacitors.	8.2
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"
		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		
	Į	<u>.</u>

Display of ordering codes for TDK Electronics products

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

Detailed information can be found on the Internet under

www.tdk-electronics.tdk.com/orderingcodes.





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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	
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	
l _{leak}	Leakage current	Reststrom	
I _{leak,op}	Operating leakage current	Betriebsreststrom	
I	Case length, nominal dimension	Gehäuselänge, Nennmaß	
I _{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)	





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