

Aluminum electrolytic capacitors

Snap-in capacitors

Series/Type: B43547

Date: February 2025

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Snap-in capacitors B43547

Outstanding ripple current, long useful life - 105 °C

Long-life grade capacitors

Applications

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

Features

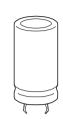
- Outstanding ripple current capability
- Improved charge/discharge robustness
- Base cooling available upon request for case sizes with diameters of 30 to 35 mm and lengths of 35 to 55 mm
- Very long useful life
- High CV product, very long useful life
- High reliability
- Extremely improved performance at high frequencies
- Outstanding low ESR at operating conditions above 50 °C
- Optimized internal thermal resistance
- 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

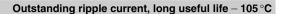
- Rapid charge/discharge-proof, polar
- Aluminum case, fully insulated with PET
- Version with PVC insulation on request
- Version with PVC insulation and additional PET insulation cap on terminal side available for insulating the capacitor from the PCB
- Snap-in solder pins to hold component in place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

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









Specifications and characteristics in brief

Rated voltage V _R	200 500 V DC										
_											
Surge voltage V _S	1.15 · V_R (for $V_R \le 250$ V DC)										
Datad sanasitanas O	1.10 · V_R (for $V_R \ge 400 \text{ V DC}$)										
Rated capacitance C _R		56 2200 μF									
Capacitance tolerance	±20% ≙ M										
Dissipation factor $\tan \delta$	$V_R \le 400 \text{ V DC: } \tan \delta$										
(20 °C, 120 Hz)	$V_R > 400 \text{ V DC: } \tan \delta$										
Leakage current I _{leak}	$I_{leak} \le 0.3 \ \mu A \cdot \left(\frac{C_R}{\mu F}\right)^{-1}$	V _R) ^{0.7} + 4 μA									
(5 min, 20 °C)		V] · + μΛ									
Self-inductance ESL	Approx. 20 nH										
Useful life ¹⁾	> 8000 h	Requireme	ents:								
105 °C; V _R ; I _{AC,R}		∆C/C	≤ 20% o	f initial value)						
		tan δ	≤ 2 time:	s initial spec	ified limit						
		I _{leak}	≤ initial s	specified limi	it						
Voltage endurance test	3000 h	Post test re	equirements								
105 °C; V _R		AC/C	≤ 10% o	f initial value)						
		tan δ	≤ 1.3 tim	es initial spe	ecified limit						
		I _{leak}	≤ initial s	specified limi	it						
Rapid charge/discharge	> 50 million cycles	Requireme	ents:								
≤35 °C; ΔV ≤ 150 V; 6 Hz		AC/C	≤ 20% o	f initial value)						
		tan δ	≤ 2 times	s initial spec	ified limit						
		I _{leak}	≤ initial s	specified limi	it						
	V _R = 400 450 V; I ≤										
Vibration resistance	To IEC 60068-2-6, te	st Fc:									
test	Frequency range 10 l	Hz 55 Hz,	displacemer	t amplitude	0.35 mm,						
	acceleration max. 5 g	, duration 3 >	< 2 h.	·							
	Capacitor mounted by	y its body wh	ich is rigidly	clamped to	the work						
	surface.	,	0 ,	•							
Characteristics at low	Max. impedance -										
temperature	ratio at 100 Hz	R	≤ 400 V	450 V	500 V						
F		_{-25 °C} / Z _{20 °C}	3	5	7						
	Z	-40 °C / Z 20 °C	7	10	14						
	_	40 0 1 20 0	1								
IEC climatic category	To IEC 60068-1:										
	V _R ≤ 450 V DC: 40/10										
	V _R = 500 V DC: 25/10										
	The capacitors can be										
	-40 °C to +105 °C bu	ut the impeda	nce at -40	°C must be t	taken into						
	consideration.										
Sectional specification	IEC 60384-4										

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

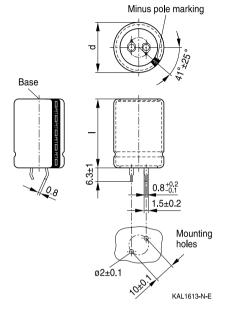




Outstanding ripple current, long useful life - 105 °C

Dimensional drawings

Snap-in capacitors with standard insulation (PET)

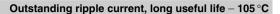


Dimensions (mm)			Approx.	Packing units
	d +1	I ±2	weight (g)	(pcs.)
	25	25	13	130
	25	30	17	130
	25	35	19	130
	25	40	22	130
	25	45	25	130
	25	50	29	130
	25	55	32	130

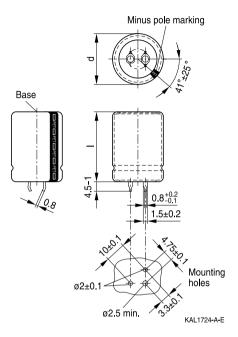
Snap-in terminals, length (6.3 ± 1) mm. Also available in a shorter version with a length of (4.5-1) mm.

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









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 case wall.

Dimension	ons (mm)	Approx.	Packing units
d +1	I±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
30	60	58	60
30	65	64	60
30	70	69	60
30	75	74	60
30	80	80	60
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
35	60	90	36
35	65	102	36
35	70	115	36
35	75	128	36
35	80	142	36



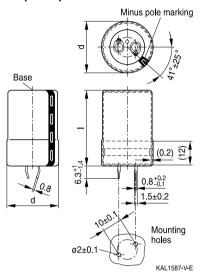
Minus pole marking



B43547

Outstanding ripple current, long useful life - 105 °C

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



Base $(0.2)^{\frac{1}{2}}$ $0.8^{\frac{1}{0.2}}$ $0.8^{\frac{1}{0.2}}$ Mounting holes 0.5 0.

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 case wall.

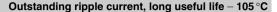
Dimensi	ons (mm)	Approx.	Packing
d +1.4	I +2.2/-2	weight (g)	units (pcs.)
25	25	13	115
25	30	17	115
25	35	19	115
25	40	22	115
25	45	25	115
25	50	29	115
25	55	32	115

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

Safety vent on the case wall.

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







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:

B43547A5107M067 } snap-in capacitor with short terminals and PET insulation

B43547A5107M062 } snap-in capacitor with 3 terminals and PET insulation

 ${\tt B43547A5107M080} \quad \} \qquad {\tt snap-in\ capacitor\ with\ standard\ terminals\ and\ PVC\ insulation\ with}$

additional PET insulation cap on terminal side





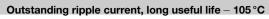
Outstanding ripple current, long useful life - 105 °C

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	sions d×I (mm)			
C _R (μF)					
56					25 × 25
68					25 × 30
82				25 × 25	25 × 30
					30 × 25
100			25 × 25	25 × 30	25 × 35
					30 × 30
120			25 × 30	25 × 35	25 × 40
				30 × 25	30 × 30
					35 × 25
150			25 × 35	25 × 40	25 × 45
			30 × 25	30 × 30	30 × 35
				35 × 25	35 × 30
180			25 × 35	25 × 45	25 × 55
			30 × 30	30×35	30 × 40
				35 × 30	35 × 35
220		25 × 25	25 × 45	25 × 50	30 × 45
			30 × 35	30 × 40	35 × 35
			35 × 25	35 × 30	
270		25 × 30	25 × 50	30 × 45	30 × 55
			30 × 35	35 × 35	35 × 40
			35 × 30		
330	25 × 25	25 × 30	25 × 55	30 × 50	30 × 65
		30 × 25	30 × 40	35 × 40	35 × 50
			35 × 35		
390	25 × 30	25 × 35	30 × 50	30 × 55	30 × 70
		30 × 30	35 × 40	35 × 45	35 × 55
470	25 × 30	25 × 40	30 × 55	30 × 65	
	30 × 25	30 × 30	35 × 45	35 × 50	
		35 × 25			
560	25 × 35	25 × 45	30 × 60	30 × 75	35 × 70
	30 × 30	30 × 35	35 × 50	35 × 55	
		35 × 30			
680	25 × 40	25 × 50	30 × 70	35 × 70	
	30 × 30	30 × 40	35 × 55		
	35 × 25	35 × 30			







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 × I (mm)									
C _R (μF)										
820	25 × 45 30 × 35 35 × 30	30 × 45 35 × 35	35 × 65	35 × 80						
1000	25 × 50 30 × 40 35 × 30	30 × 50 35 × 40	35 × 75							
1200	30 × 45 35 × 35	35 × 45								
1500	30 × 50 35 × 40	35 × 55								
1800	35 × 45									
2200	35 × 55									





Outstanding ripple current, long useful life - 105 °C

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×I	20 °C	60 °C	20 °C	60 °C	85 °C	105 °C	below)			
μF	mm	$m\Omega$	$\text{m}\Omega$	mΩ	Α	Α	Α	•			
V _R = 200 V DC											
330	25 × 25	210	80	280	3.32	2.45	1.32	B43547A2337M0*#			
390	25 × 30	170	60	230	3.79	2.80	1.51	B43547A2397M0*#			
470	25 × 30	150	55	200	4.16	3.08	1.65	B43547A2477M0*#			
470	30 × 25	140	45	190	4.65	3.43	1.85	B43547B2477M0*#			
560	25 × 35	120	45	170	4.75	3.52	1.89	B43547A2567M0*#			
560	30 × 30	120	40	160	5.26	3.89	2.10	B43547B2567M0*#			
680	25 × 40	100	40	140	5.45	4.03	2.17	B43547A2687M0*#			
680	30 × 30	100	34	130	5.86	4.33	2.33	B43547B2687M0*#			
680	35 × 25	100	40	140	5.90	4.36	2.34	B43547C2687M0*#			
820	25 × 45	85	34	120	6.22	4.60	2.47	B43547A2827M0*#			
820	30 × 35	80	28	110	6.69	4.94	2.66	B43547B2827M0*#			
820	35 × 30	85	30	110	6.80	5.03	2.88	B43547C2827M0*#			
1000	25 × 50	70	28	95	7.13	5.28	2.84	B43547A2108M0*#			
1000	30 × 40	65	24	90	7.69	5.69	3.26	B43547B2108M0*#			
1000	35 × 30	70	28	95	7.43	5.49	3.14	B43547C2108M0*#			
1200	30 × 45	55	20	75	8.73	6.46	3.70	B43547A2128M0*#			
1200	35×35	60	22	80	8.47	6.26	3.58	B43547B2128M0*#			
1500	30 × 50	45	16	60	10.1	7.53	4.31	B43547A2158M0*#			
1500	35 × 40	45	19	65	9.77	7.23	4.13	B43547B2158M0*#			
1800	35 × 45	40	16	55	11.0	8.17	4.67	B43547A2188M0*#			
2200	35 × 55	32	13	45	12.9	9.54	5.46	B43547A2228M0*#			

- * = 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)





Outstanding ripple current, long useful life - 105 °C

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	Α	Α	Α				
V _R = 250 V DC											
220	25 × 25	320	110	440	2.77	2.04	1.10	B43547E2227M0*#			
270	25 × 30	260	85	350	3.20	2.37	1.28	B43547E2277M0*#			
330	25 × 30	220	75	300	3.58	2.65	1.42	B43547E2337M0*#			
330	30 × 25	210	65	280	3.93	2.90	1.56	B43547F2337M0*#			
390	25×35	180	65	250	4.06	3.00	1.61	B43547E2397M0*#			
390	30 × 30	170	55	240	4.42	3.27	1.76	B43547F2397M0*#			
470	25 × 40	150	55	210	4.64	3.43	1.85	B43547E2477M0*#			
470	30 × 30	150	50	200	4.93	3.64	1.96	B43547F2477M0*#			
470	35 × 25	150	55	210	5.02	3.71	1.99	B43547G2477M0*#			
560	25 × 45	130	45	180	5.27	3.89	2.10	B43547E2567M0*#			
560	30 × 35	120	40	170	5.58	4.12	2.22	B43547F2567M0*#			
560	35×30	120	40	170	5.72	4.23	2.43	B43547G2567M0*#			
680	25×50	110	40	150	6.05	4.47	2.41	B43547E2687M0*#			
680	30 × 40	100	32	140	6.40	4.73	2.71	B43547F2687M0*#			
680	35×30	110	40	150	6.31	4.66	2.67	B43547G2687M0*#			
820	30 × 45	85	28	120	7.30	5.39	3.09	B43547E2827M0*#			
820	35×35	85	32	120	7.19	5.31	3.04	B43547F2827M0*#			
1000	30 × 50	70	24	95	8.40	6.20	3.56	B43547E2108M0*#			
1000	35 × 40	70	26	100	8.21	6.07	3.48	B43547F2108M0*#			
1200	35×45	60	22	85	9.29	6.87	3.93	B43547E2128M0*#			
1500	35 × 55	50	17	70	10.9	8.10	4.64	B43547E2158M0*#			

- * = 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)





Outstanding ripple current, long useful life - 105 °C

Technical data and ordering codes

	0	EOD	FOD	I -				0		
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×I	20 °C	60 °C	20 °C	60 °C	85 °C	105 °C	below)		
μF	mm	mΩ	mΩ	mΩ	Α	Α	Α			
V _R = 400 V DC										
100	25 × 25	520	170	700	2.06	1.52	0.82	B43547A9107M0*#		
120	25 × 30	430	140	580	2.34	1.73	0.93	B43547A9127M0*#		
150	25×35	340	110	460	2.73	2.02	1.09	B43547A9157M0*#		
150	30 × 25	340	110	460	2.88	2.13	1.14	B43547B9157M0*#		
180	25×35	290	100	390	3.06	2.26	1.22	B43547A9187M0*#		
180	30 × 30	280	90	380	3.26	2.41	1.30	B43547B9187M0*#		
220	25 × 45	240	75	320	3.58	2.66	1.43	B43547A9227M0*#		
220	30 × 35	230	75	310	3.73	2.76	1.49	B43547B9227M0*#		
220	35 × 25	240	80	320	3.81	2.82	1.51	B43547C9227M0*#		
270	25×50	190	65	260	4.15	3.07	1.65	B43547A9277M0*#		
270	30 × 35	190	60	260	4.25	3.14	1.69	B43547B9277M0*#		
270	35×30	190	65	260	4.40	3.25	1.86	B43547C9277M0*#		
330	25×55	160	55	220	4.82	3.57	1.92	B43547A9337M0*#		
330	30 × 40	160	50	210	4.91	3.63	2.08	B43547B9337M0*#		
330	35×35	160	50	210	5.02	3.72	2.13	B43547C9337M0*#		
390	30 × 50	130	40	180	5.57	4.13	2.36	B43547A9397M0*#		
390	35×40	130	45	180	5.62	4.16	2.38	B43547B9397M0*#		
470	30 × 55	110	36	150	6.38	4.72	2.71	B43547A9477M0*#		
470	35×45	110	36	150	6.37	4.72	2.70	B43547B9477M0*#		
560	30 × 60	110	34	160	7.22	5.36	3.08	B43547B9567M0*#		
560	35×50	95	32	130	7.19	5.33	3.05	B43547A9567M0*#		
680	30 × 70	90	28	130	8.42	6.25	3.59	B43547B9687M0*#		
680	35 × 55	75	26	110	8.23	6.09	3.49	B43547A9687M0*#		
820	35 × 65	75	24	110	9.40	6.98	4.01	B43547A9827M0*#		
1000	35 × 75	65	20	90	10.9	8.13	4.67	B43547A9108M0*#		

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





Outstanding ripple current, long useful life - 105 °C

Technical data and ordering codes

	0	FOD	FOD	7				0
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×I	20 °C	60 °C	20 °C	60 °C	85 °C	105 °C	below)
μF	mm	mΩ	mΩ	mΩ	Α	Α	Α	
$V_{R} = 450$	V DC							
82	25×25	920	250	1330	1.73	1.36	0.73	B43547B5826M0*#
100	25×30	750	200	1090	2.12	1.56	0.84	B43547A5107M0*#
120	25×35	630	170	910	2.41	1.78	0.96	B43547A5127M0*#
120	30×25	620	170	900	2.53	1.86	1.00	B43547B5127M0*#
150	25×40	500	140	730	2.82	2.08	1.12	B43547A5157M0*#
150	30 × 30	500	130	720	2.93	2.16	1.17	B43547B5157M0*#
150	35 × 25	500	140	730	3.07	2.26	1.22	B43547C5157M0*#
180	25×45	420	110	610	3.21	2.37	1.28	B43547A5187M0*#
180	30×35	410	110	600	3.32	2.45	1.32	B43547B5187M0*#
180	35×30	420	110	600	3.47	2.56	1.47	B43547C5187M0*#
220	25×50	340	95	500	3.73	2.75	1.48	B43547A5227M0*#
220	30 × 40	340	90	490	3.83	2.83	1.62	B43547B5227M0*#
220	35×30	340	95	500	3.91	2.88	1.65	B43547C5227M0*#
270	30×45	280	75	400	4.42	3.26	1.88	B43547A5277M0*#
270	35×35	280	75	410	4.48	3.31	1.90	B43547B5277M0*#
330	30 × 50	230	60	330	5.11	3.77	2.17	B43547A5337M0*#
330	35×40	230	65	330	5.14	3.79	2.18	B43547B5337M0*#
390	30×55	190	50	280	5.79	4.27	2.45	B43547A5397M0*#
390	35×45	190	55	280	5.77	4.25	2.44	B43547B5397M0*#
470	30 × 65	160	45	240	6.63	4.92	2.82	B43547B5477M0*#
470	35×50	160	45	240	6.57	4.85	2.79	B43547A5477M0*#
560	30 × 75	140	36	200	7.63	5.66	3.25	B43547B5567M0*#
560	35×55	140	40	200	7.27	5.37	3.08	B43547A5567M0*#
680	35×70	110	32	170	8.59	6.38	3.66	B43547A5687M0*#
820	35 × 80	95	26	140	9.92	7.37	4.23	B43547A5827M0*#

- * = 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)





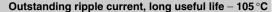
Outstanding ripple current, long useful life - 105 °C

Technical data and ordering codes

	0	EOD	FOD	-				Oud-day and
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	Α	Α	Α	
$V_{R} = 500^{\circ}$	V _R = 500 V DC							
56	25 × 25	1120	330	1500	1.18	1.11	0.52	B43547A6566M0*#
68	25 × 30	920	270	1230	1.43	1.27	0.60	B43547A6686M0*#
82	25 × 30	770	230	1030	1.73	1.42	0.67	B43547A6826M0*#
82	30 × 25	760	220	1020	1.73	1.51	0.71	B43547B6826M0*#
100	25 × 35	630	190	840	2.11	1.64	0.77	B43547A6107M0*#
100	30 × 30	620	180	830	2.11	1.73	0.82	B43547B6107M0*#
120	25 × 40	520	160	700	2.52	1.87	0.88	B43547A6127M0*#
120	30 × 30	520	150	700	2.53	1.94	0.91	B43547B6127M0*#
120	35 × 25	520	160	700	2.53	2.02	0.95	B43547C6127M0*#
150	25 × 45	420	120	560	2.96	2.20	1.04	B43547A6157M0*#
150	30 × 35	420	120	560	3.04	2.25	1.06	B43547B6157M0*#
150	35 × 30	420	120	560	3.16	2.34	1.18	B43547C6157M0*#
180	25×55	350	100	470	3.42	2.54	1.20	B43547A6187M0*#
180	30 × 40	350	100	470	3.45	2.56	1.29	B43547B6187M0*#
180	35×35	350	100	470	3.56	2.65	1.33	B43547C6187M0*#
220	30 × 45	280	85	380	3.98	2.95	1.49	B43547A6227M0*#
220	35×35	290	85	390	4.03	2.99	1.50	B43547B6227M0*#
270	30 × 55	230	65	310	4.65	3.45	1.74	B43547A6277M0*#
270	35 × 40	230	70	320	4.65	3.45	1.73	B43547B6277M0*#
330	30 × 65	190	55	260	5.39	4.01	2.02	B43547B6337M0*#
330	35 × 50	190	55	260	5.36	3.99	2.01	B43547A6337M0*#
390	30 × 70	160	45	220	6.13	4.55	2.29	B43547B6397M0*#
390	35 × 55	160	50	220	6.05	4.49	2.26	B43547A6397M0*#
560	35 × 70	110	34	160	7.89	5.86	2.95	B43547A6567M0*#

- * = 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 life1)

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:

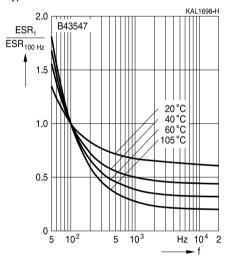
www.tdk-electronics.tdk.com/alcap

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.

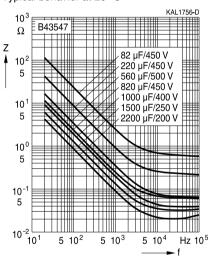
Frequency characteristics of ESR

Typical behavior



Impedance Z versus frequency f

Typical behavior at 20 °C



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





Outstanding ripple current, 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.

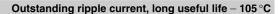
Materials and chemicals used in our aluminum electrolytic capacitors are continuously adapted in compliance with the TDK Electronics Corporate Environmental Policy and the latest EU regulations and guidelines such as RoHS, REACH/SVHC, GADSL, and ELV.

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.

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 seperate file 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 of opposite polarity should be prevented by connecting a diode.	3.1.6 "Reverse voltage"
Mounting position of capacitors with screw or multi-pin terminals	Multi-pin capacitors with pressure relief vent on the can base must not be mounted with terminals facing up unless otherwise specified.	11.1. "Mounting positions of capacitors with screw or multipin 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	11.2 "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.	11.3 "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"





Outstanding ripple current, long useful life - 105 °C

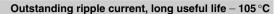
Topic	Safety information	Reference chapter "General technical information"
Active flammability	Avoid overload of the capacitors.	8.2 "Active flammability"
Maintenance	Make periodic inspections of the capacitors. Before the inspection, make sure that the power supply is turned off and carefully discharge the capacitors. Do not apply excessive mechanical stress to the capacitor terminals when mounting.	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 ≤ 75%.	7.3 "Shelf life and 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"

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.







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 _{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
1	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
T_B	Capacitor base temperature	Temperatur des Gehäusebodens
t	Time	Zeit
Δt	Period	Zeitraum
t_b	Service life (operating hours)	Brauchbarkeitsdauer (Betriebszeit)





Outstanding ripple current, long useful life - 105 °C

Symbol	English	German
V	Voltage	Spannung
V_{F}	Forming voltage	Formierspannung
V_{op}	Operating voltage	Betriebsspannung
V_R	Rated voltage, DC voltage	Nennspannung, Gleichspannung
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.



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, we are either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether a product with the properties described in the product specification is suitable for use in a particular customer application.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or 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.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous). Useful information on this will be found in our Material Data Sheets on the Internet (www.tdk-electronics.tdk.com/material). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also reserve the right to discontinue production and delivery of products. Consequently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
- Unless otherwise agreed in individual contracts, all orders are subject to our General Terms and Conditions of Supply.



Important notes

- 7. Our manufacturing sites serving the automotive business apply the IATF 16949 standard. The IATF certifications confirm our compliance with requirements regarding the quality management system in the automotive industry. Referring to customer requirements and customer specific requirements ("CSR") TDK always has and will continue to have the policy of respecting individual agreements. Even if IATF 16949 may appear to support the acceptance of unilateral requirements, we hereby like to emphasize that only requirements mutually agreed upon can and will be implemented in our Quality Management System. For clarification purposes we like to point out that obligations from IATF 16949 shall only become legally binding if individually agreed upon.
- 8. The trade names EPCOS, CarXield, CeraCharge, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CTVS, DeltaCap, DigiSiMic, ExoCore, FilterCap, FormFit, LeaXield, MediPlas, MiniBlue, MiniCell, MKD, MKK, ModCap, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PiezoBrush, PlasmaBrush, PowerHap, PQSine, PQvar, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SurfIND, ThermoFuse, WindCap, XieldCap are trademarks registered or pend-ing in Europe and in other countries. Further information will be found on the Internet at www.tdk-electronics.tdk.com/trademarks.

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