



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Aluminum electrolytic capacitors

Single-ended capacitors

Series/Type: B41044, B43044

Date: December 2010

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B41044A8227M000		2012-04-13	2012-07-13	2012-10-13

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

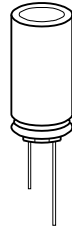
© EPCOS AG 2010. Reproduction, publication and dissemination of this publication, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

Long-life grade capacitors for professional applications
Applications

- Power supplies

Features

- RoHS-compatible
- High CV product
- Low impedance at high frequencies
- High reliability
- Useful life of 5000 h at 105 °C


Construction

- Radial leads
- Aluminum case, fully insulated
- Charge-discharge proof
- Minus pole marking on the insulating sleeve
- Case with safety vent from diameter 8 mm

Delivery mode

- Bulk
- Taped, Ammo pack
- Cut (see chapter "Single-ended – Taping, packing and lead configurations, Cut leads (Chapter A)")
- Kinked (see chapter "Single-ended – Taping, packing and lead configurations, Kinked leads (Chapter A)")

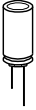
Refer to chapter "Single-ended capacitors – Taping, packing and lead configurations" for further details.

Specifications and characteristics in brief

Series	B41044		B43044									
Rated voltage V_R	6.3 ... 100 V DC		160 ... 450 V DC									
Surge voltage V_S	$V_R \leq 250$ V DC: $1.15 \cdot V_R$ (at room temperature) $V_R > 250$ V DC: $1.1 \cdot V_R$ (at room temperature)											
Rated capacitance C_R	0.22 ... 15000 μ F											
Capacitance tolerance	$\pm 20\% \triangleq M$											
Dissipation factor (max.) (20 °C, 120 Hz)	For capacitance higher than 1000 μ F add 0.02 for every increase of 1000 μ F.											
	V_R (V DC)	6.3	10	16	25	35	50	63	100	160	350	
										... 250	... 450	
	$\tan \delta$	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	



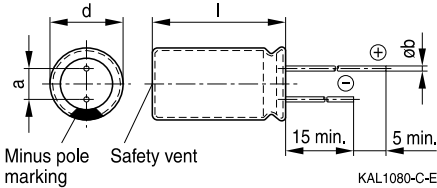
Series	B41044		B43044				
Leakage current I_{leak}	$V_R \leq 100$ V DC		$V_R > 100$ V DC				
	$I_{leak} \leq 0.03 \mu\text{A} \cdot \left(\frac{C_R}{\mu\text{F}} \cdot \frac{V_R}{\text{V}} \right)$ or 4 μA , whichever is greater (20 °C, after 1 minute)		$I_{leak} \leq 0.02 \mu\text{A} \cdot \left(\frac{C_R}{\mu\text{F}} \cdot \frac{V_R}{\text{V}} \right) + 15 \mu\text{A}$ (20 °C, after 5 minutes)				
Useful life 105 °C; V_R ; $I_{AC,R}$	$V_R \leq 100$ V DC		$V_R > 100$ V DC				
	> 2000 h for d = 5 ... 6.3 mm > 3000 h for d = 8 mm > 5000 h for d \geq 10 mm		2000 h				
Requirements	$\Delta C/C \leq \pm 20\%$ of initial value $\tan \delta \leq 2$ times initial specified value $I_{leak} \leq$ initial specified limit						
Shelf life	After storage for 1000 h at 105 °C, the capacitors shall meet the requirement of load life test after reforming process. After test: V_R to be applied for 30 minutes, 24 to 48 hours before measurement.						
Low temperature stability (impedance ratio) (120 Hz)	V_R (V DC)	6.3	10	16	25 ... 100	160 ... 250	315 ... 450
	$Z(-25^\circ\text{C})$	4	3	2	2	3	8
	$Z(+20^\circ\text{C})$						
	$Z(-40^\circ\text{C})$ $Z(+20^\circ\text{C})$	8	6	4	3	4	—
Vibration resistance test	To IEC 60068-2-6, test Fc: Frequency range 10 ... 55 Hz, displacement amplitude 0.75 mm, acceleration max. 10 g, duration 3 \times 2 h. If can size D <16 mm, capacitor is mounted by the leads If can size D \geq 16 mm, capacitor rigidly clamped by the aluminum case						
IEC climatic category	To IEC 60068-1: $V_R < 350$ V DC: 40/105/56 (-40 °C/+105 °C/56 days damp heat test) $V_R \geq 350$ V DC: 25/105/56 (-25 °C/+105 °C/56 days damp heat test)						



B41044, B43044

Low impedance & high ripple current – 105 °C

Dimensional drawing



Safety vent for diameter $\geq 8 \text{ mm}$.

Case Dimensions

$d \times l$ mm	$d_{\text{max}} \times l_{\text{max}}$ mm	a mm	b mm
5 × 11	5.5 × 12.5	2.0 ± 0.5	0.5 ± 0.1
6.3 × 11	6.8 × 12.5	2.5 ± 0.5	0.5 ± 0.1
8 × 11.5	8.5 × 13.0	3.5 ± 0.5	0.6 ± 0.1
10 × 12.5	11.0 × 14.0	5.0 ± 0.5	0.6 ± 0.1
10 × 16	11.0 × 17.5	5.0 ± 0.5	0.6 ± 0.1
10 × 20	11.0 × 22.0	5.0 ± 0.5	0.6 ± 0.1
10 × 25	11.0 × 27.0	5.0 ± 0.5	0.6 ± 0.1
12.5 × 20	13.5 × 22.0	5.0 ± 0.5	0.6 ± 0.1
12.5 × 25	13.5 × 27.0	5.0 ± 0.5	0.6 ± 0.1
16 × 20	17.0 × 22.0	7.5 ± 0.5	0.8 ± 0.1
16 × 25	17.0 × 27.0	7.5 ± 0.5	0.8 ± 0.1
16 × 31.5	17.0 × 33.5	7.5 ± 0.5	0.8 ± 0.1
16 × 35.5	17.0 × 37.5	7.5 ± 0.5	0.8 ± 0.1
18 × 25	19.0 × 27.0	7.5 ± 0.5	0.8 ± 0.1
18 × 31.5	19.0 × 33.5	7.5 ± 0.5	0.8 ± 0.1
18 × 35.5	19.0 × 37.5	7.5 ± 0.5	0.8 ± 0.1
18 × 40	19.0 × 42.0	7.5 ± 0.5	0.8 ± 0.1


Overview of available types – B41044

V_R (V DC)	6.3	10	16	25
	Case dimensions $d \times l$ (mm)			
C_R (μ F)				
4.7				5 × 11
10			5 × 11	5 × 11
22	5 × 11	5 × 11	5 × 11	5 × 11
33	5 × 11	5 × 11	5 × 11	5 × 11
47	5 × 11	5 × 11	5 × 11	5 × 11
100	5 × 11	5 × 11	6.3 × 11	6.3 × 11
150	6.3 × 11	6.3 × 11	6.3 × 11	8 × 11.5
220	6.3 × 11	6.3 × 11	8 × 11.5	8 × 11.5
330	6.3 × 11	8 × 11.5	8 × 11.5	10 × 12.5
470	8 × 11.5	8 × 11.5	10 × 12.5	10 × 16
680	10 × 12.5	10 × 12.5	10 × 16	10 × 20
1000	10 × 12.5	10 × 16	10 × 20	12.5 × 20
1500	10 × 20	10 × 20	12.5 × 20	16 × 20
2200	12.5 × 20	12.5 × 20	12.5 × 25	16 × 25
3300	12.5 × 20	12.5 × 25	16 × 25	16 × 31.5
4700	16 × 25	16 × 25	16 × 31.5	18 × 35.5
6800	16 × 25	16 × 31.5	18 × 35.5	
10000	16 × 31.5	16 × 35.5		
15000	16 × 35.5			


B41044
Low impedance & high ripple current – 105 °C

V_R (V DC)	35	50	63	100
	Case dimensions $d \times l$ (mm)			
C_R (μ F)				
0.22		5 × 11		
0.47		5 × 11		
1.0		5 × 11		
2.2		5 × 11		5 × 11
3.3		5 × 11	5 × 11	5 × 11
4.7	5 × 11	5 × 11	5 × 11	5 × 11
10	5 × 11	5 × 11	5 × 11	6.3 × 11
22	5 × 11	5 × 11	6.3 × 11	8 × 11.5
33	5 × 11	6.3 × 11	6.3 × 11	10 × 12.5
47	6.3 × 11	8 × 11.5	8 × 11.5	10 × 16
100	8 × 11.5	8 × 11.5	10 × 16	12.5 × 20
150	8 × 11.5	10 × 12.5	10 × 20	12.5 × 25
220	10 × 12.5	10 × 16	10 × 25	16 × 25
330	10 × 16	10 × 20	12.5 × 20	16 × 31.5
470	10 × 20	12.5 × 20	16 × 20	18 × 40
680	12.5 × 20	12.5 × 25	16 × 25	
1000	12.5 × 25	16 × 25	16 × 35.5	
1500	16 × 25	16 × 31.5		
2200	16 × 31.5	18 × 35.5		
3300	18 × 35.5			


Overview of available types – B43044

V_R (V DC)	160	200	250	350	400	450
	Case dimensions $d \times l$ (mm)					
C_R (μF)						
3.3						10 × 20
4.7						12.5 × 20
10			10 × 20	10 × 20	10 × 20	12.5 × 25
22	10 × 20	10 × 20	12.5 × 20	12.5 × 20	12.5 × 25	16 × 25
33	10 × 20	12.5 × 20	12.5 × 25	16 × 20	16 × 25	16 × 31.5
47	12.5 × 20	12.5 × 20	12.5 × 25	16 × 25	16 × 25	18 × 31.5
68	12.5 × 20	12.5 × 25	16 × 25	16 × 31.5	18 × 31.5	18 × 35.5
100	16 × 25	16 × 25	16 × 31.5	18 × 31.5	18 × 40	
150	16 × 31.5	18 × 25	18 × 31.5			
220	16 × 31.5	18 × 31.5	18 × 40			
330	18 × 31.5					


B41044
Low impedance & high ripple current – 105 °C
Technical data and ordering codes – B41044

C_R	Case dimensions	Z_{max}	$I_{AC,R}$	Ordering code
120 Hz	$d \times l$	100 kHz	100 kHz	(composition see below)
20 °C	mm	20 °C	105 °C	
μF		Ω	mA	

 $V_R = 6.3 V DC$

22	5 × 11	0.700	180	B41044A2226M***
33	5 × 11	0.700	180	B41044A2336M***
47	5 × 11	0.650	180	B41044A2476M***
100	5 × 11	0.650	180	B41044A2107M***
150	6.3 × 11	0.300	280	B41044A2157M***
220	6.3 × 11	0.300	280	B41044A2227M***
330	6.3 × 11	0.300	280	B41044A2337M***
470	8 × 11.5	0.140	450	B41044A2477M***
680	10 × 12.5	0.100	660	B41044A2687M***
1000	10 × 12.5	0.100	660	B41044A2108M***
1500	10 × 20	0.054	1100	B41044A2158M***
2200	12.5 × 20	0.050	1400	B41044A2228M***
3300	12.5 × 20	0.050	1400	B41044A2338M***
4700	16 × 25	0.030	2100	B41044A2478M***
6800	16 × 25	0.030	2100	B41044A2688M***
10000	16 × 31.5	0.025	2600	B41044A2109M***
15000	16 × 35.5	0.022	3000	B41044A2159M***

 $V_R = 10 V DC$

22	5 × 11	0.700	180	B41044A3226M***
33	5 × 11	0.700	180	B41044A3336M***
47	5 × 11	0.650	180	B41044A3476M***
100	5 × 11	0.650	180	B41044A3107M***
150	6.3 × 11	0.300	280	B41044A3157M***
220	6.3 × 11	0.300	280	B41044A3227M***
330	8 × 11.5	0.140	450	B41044A3337M***
470	8 × 11.5	0.140	450	B41044A3477M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

016 = for taped leads, Ammo pack, lead spacing F = 2.0 mm (for \varnothing 5 mm)

007 = for taped leads, Ammo pack, lead spacing F = 2.5 mm (for \varnothing 5 ... 6.3 mm)

006 = for taped leads, Ammo pack, lead spacing F = 3.5 mm (for \varnothing 8 mm)

008 = for taped leads, Ammo pack, lead spacing F = 5.0 mm (for \varnothing 5 ... 12.5 mm)

009 = for taped leads, Ammo pack, lead spacing F = 7.5 mm (for $d \times l = 16 \times 20 \dots 16 \times 31.5$ mm and $18 \times 25 \dots 18 \times 31.5$ mm)


Technical data and ordering codes – B41044

C_R	Case dimensions	Z_{max}	$I_{AC,R}$	Ordering code
120 Hz	$d \times l$	100 kHz	100 kHz	(composition see below)
20 °C	mm	20 °C	105 °C	
μF		Ω	mA	

 $V_R = 10 V DC$

680	10 × 12.5	0.100	660	B41044A3687M***
1000	10 × 16	0.080	850	B41044A3108M***
1500	10 × 20	0.054	1100	B41044A3158M***
2200	12.5 × 20	0.050	1400	B41044A3228M***
3300	12.5 × 25	0.038	1700	B41044A3338M***
4700	16 × 25	0.030	2100	B41044A3478M***
6800	16 × 31.5	0.025	2600	B41044A3688M***
10000	16 × 35.5	0.022	3000	B41044A3109M***

 $V_R = 16 V DC$

10	5 × 11	0.70	180	B41044A4106M***
22	5 × 11	0.70	180	B41044A4226M***
33	5 × 11	0.70	180	B41044A4336M***
47	5 × 11	0.65	180	B41044A4476M***
100	6.3 × 11	0.30	280	B41044A4107M***
150	6.3 × 11	0.30	280	B41044A4157M***
220	8 × 11.5	0.14	450	B41044A4227M***
330	8 × 11.5	0.14	450	B41044A4337M***
470	10 × 12.5	0.10	660	B41044A4477M***
680	10 × 16	0.080	850	B41044A4687M***
1000	10 × 20	0.054	1100	B41044A4108M***
1500	12.5 × 20	0.050	1400	B41044A4158M***
2200	12.5 × 25	0.038	1700	B41044A4228M***
3300	16 × 25	0.030	2100	B41044A4338M***
4700	16 × 31.5	0.025	2600	B41044A4478M***
6800	18 × 35.5	0.022	3000	B41044A4688M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

 016 = for taped leads, Ammo pack, lead spacing F = 2.0 mm (for \varnothing 5 mm)

 007 = for taped leads, Ammo pack, lead spacing F = 2.5 mm (for \varnothing 5 ... 6.3 mm)

 006 = for taped leads, Ammo pack, lead spacing F = 3.5 mm (for \varnothing 8 mm)

 008 = for taped leads, Ammo pack, lead spacing F = 5.0 mm (for \varnothing 5 ... 12.5 mm)

 009 = for taped leads, Ammo pack, lead spacing F = 7.5 mm (for $d \times l = 16 \times 20 \dots 16 \times 31.5$ mm and $18 \times 25 \dots 18 \times 31.5$ mm)


B41044
Low impedance & high ripple current – 105 °C
Technical data and ordering codes – B41044

C_R	Case dimensions	Z_{max}	$I_{AC,R}$	Ordering code
120 Hz	$d \times l$	100 kHz	100 kHz	(composition see below)
20 °C	mm	20 °C	105 °C	
μF		Ω	mA	
$V_R = 25 V DC$				
4.7	5 × 11	0.70	180	B41044A5475M***
10	5 × 11	0.70	180	B41044A5106M***
22	5 × 11	0.70	180	B41044A5226M***
33	5 × 11	0.70	180	B41044A5336M***
47	5 × 11	0.65	180	B41044A5476M***
100	6.3 × 11	0.30	280	B41044A5107M***
150	8 × 11.5	0.14	450	B41044A5157M***
220	8 × 11.5	0.14	450	B41044A5227M***
330	10 × 12.5	0.10	660	B41044A5337M***
470	10 × 16	0.080	850	B41044A5477M***
680	10 × 20	0.054	1100	B41044A5687M***
1000	12.5 × 20	0.050	1400	B41044A5108M***
1500	16 × 20	0.030	2100	B41044A5158M***
2200	16 × 25	0.030	2100	B41044A5228M***
3300	16 × 31.5	0.025	2600	B41044A5338M***
4700	18 × 35.5	0.022	3000	B41044A5478M***
$V_R = 35 V DC$				
4.7	5 × 11	0.70	180	B41044A7475M***
10	5 × 11	0.70	180	B41044A7106M***
22	5 × 11	0.70	180	B41044A7226M***
33	5 × 11	0.65	180	B41044A7336M***
47	6.3 × 11	0.30	280	B41044A7476M***
100	8 × 11.5	0.14	450	B41044A7107M***
150	8 × 11.5	0.14	450	B41044A7157M***
220	10 × 12.5	0.10	660	B41044A7227M***
330	10 × 16	0.080	850	B41044A7337M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

 016 = for taped leads, Ammo pack, lead spacing F = 2.0 mm (for \varnothing 5 mm)

 007 = for taped leads, Ammo pack, lead spacing F = 2.5 mm (for \varnothing 5 ... 6.3 mm)

 006 = for taped leads, Ammo pack, lead spacing F = 3.5 mm (for \varnothing 8 mm)

 008 = for taped leads, Ammo pack, lead spacing F = 5.0 mm (for \varnothing 5 ... 12.5 mm)

 009 = for taped leads, Ammo pack, lead spacing F = 7.5 mm (for $d \times l = 16 \times 20 \dots 16 \times 31.5$ mm and $18 \times 25 \dots 18 \times 31.5$ mm)


Technical data and ordering codes – B41044

C_R	Case dimensions	Z_{max}	$I_{AC,R}$	Ordering code (composition see below)
120 Hz	$d \times l$	100 kHz	100 kHz	
20 °C	mm	20 °C	105 °C	
μF		Ω	mA	
$V_R = 35 V DC$				
470	10 × 20	0.054	1100	B41044A7477M***
680	12.5 × 20	0.050	1400	B41044A7687M***
1000	12.5 × 25	0.038	1700	B41044A7108M***
1500	16 × 25	0.030	2100	B41044A7158M***
2200	16 × 31.5	0.025	2600	B41044A7228M***
3300	18 × 35.5	0.022	3000	B41044A7338M***
$V_R = 50 V DC$				
0.22	5 × 11	8.0	18	B41044A6224M***
0.47	5 × 11	5.0	25	B41044A6474M***
1.0	5 × 11	3.5	40	B41044A6105M***
2.2	5 × 11	3.0	55	B41044A6225M***
3.3	5 × 11	2.6	65	B41044A6335M***
4.7	5 × 11	2.3	90	B41044A6475M***
10	5 × 11	1.4	120	B41044A6106M***
22	5 × 11	1.2	150	B41044A6226M***
33	6.3 × 11	0.60	200	B41044A6336M***
47	8 × 11.5	0.43	250	B41044A6476M***
100	8 × 11.5	0.35	340	B41044A6107M***
150	10 × 12.5	0.17	490	B41044A6157M***
220	10 × 16	0.12	650	B41044A6227M***
330	10 × 20	0.10	810	B41044A6337M***
470	12.5 × 20	0.085	1100	B41044A6477M***
680	12.5 × 25	0.065	1200	B41044A6687M***
1000	16 × 25	0.043	1600	B41044A6108M***
1500	16 × 31.5	0.038	2000	B41044A6158M***
2200	18 × 35.5	0.034	2300	B41044A6228M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

 016 = for taped leads, Ammo pack, lead spacing $F = 2.0$ mm (for $\varnothing 5$ mm)

 007 = for taped leads, Ammo pack, lead spacing $F = 2.5$ mm (for $\varnothing 5 \dots 6.3$ mm)

 006 = for taped leads, Ammo pack, lead spacing $F = 3.5$ mm (for $\varnothing 8$ mm)

 008 = for taped leads, Ammo pack, lead spacing $F = 5.0$ mm (for $\varnothing 5 \dots 12.5$ mm)

 009 = for taped leads, Ammo pack, lead spacing $F = 7.5$ mm (for $d \times l = 16 \times 20 \dots 16 \times 31.5$ mm and $18 \times 25 \dots 18 \times 31.5$ mm)


B41044
Low impedance & high ripple current – 105 °C
Technical data and ordering codes – B41044

C_R	Case dimensions	Z_{max}	$I_{AC,R}$	Ordering code
120 Hz	$d \times l$	100 kHz	100 kHz	(composition see below)
20 °C	mm	20 °C	105 °C	
μF		Ω	mA	
$V_R = 63 V DC$				
3.3	5 × 11	2.0	64	B41044A8335M***
4.7	5 × 11	2.0	76	B41044A8475M***
10	5 × 11	2.0	111	B41044A8106M***
22	6.3 × 11	0.60	190	B41044A8226M***
33	6.3 × 11	0.60	233	B41044A8336M***
47	8 × 11.5	0.50	328	B41044A8476M***
100	10 × 16	0.12	456	B41044A8107M***
150	10 × 20	0.10	610	B41044A8157M***
220	10 × 25	0.090	809	B41044A8227M***
330	12.5 × 20	0.085	1036	B41044A8337M***
470	16 × 20	0.050	1411	B41044A8477M***
680	16 × 25	0.043	1843	B41044A8687M***
1000	16 × 35.5	0.025	1967	B41044A8108M***
$V_R = 100 V DC$				
2.2	5 × 11	2.5	52	B41044A9225M***
3.3	5 × 11	2.5	64	B41044A9335M***
4.7	5 × 11	2.5	76	B41044A9475M***
10	6.3 × 11	1.0	128	B41044A9106M***
22	8 × 11.5	0.60	224	B41044A9226M***
33	10 × 12.5	0.40	319	B41044A9336M***
47	10 × 16	0.30	417	B41044A9476M***
100	12.5 × 20	0.15	570	B41044A9107M***
150	12.5 × 25	0.12	762	B41044A9157M***
220	16 × 25	0.070	1048	B41044A9227M***
330	16 × 31.5	0.050	1404	B41044A9337M***
470	18 × 40	0.030	1980	B41044A9477M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

 016 = for taped leads, Ammo pack, lead spacing F = 2.0 mm (for \varnothing 5 mm)

 007 = for taped leads, Ammo pack, lead spacing F = 2.5 mm (for \varnothing 5 ... 6.3 mm)

 006 = for taped leads, Ammo pack, lead spacing F = 3.5 mm (for \varnothing 8 mm)

 008 = for taped leads, Ammo pack, lead spacing F = 5.0 mm (for \varnothing 5 ... 12.5 mm)

 009 = for taped leads, Ammo pack, lead spacing F = 7.5 mm (for $d \times l = 16 \times 20 \dots 16 \times 31.5$ mm and $18 \times 25 \dots 18 \times 31.5$ mm)


Technical data and ordering codes – B43044

C_R	Case dimensions	Z_{max}	$I_{AC,R}$	Ordering code (composition see below)
120 Hz	$d \times l$	100 kHz	100 kHz	
20 °C	mm	20 °C	105 °C	
μF		Ω	mA	
$V_R = 160 \text{ V DC}$				
22	10 × 20	1.3	440	B43044A1226M***
33	10 × 20	1.3	565	B43044A1336M***
47	12.5 × 20	0.91	725	B43044A1476M***
68	12.5 × 20	0.63	950	B43044A1686M***
100	16 × 25	0.27	1280	B43044A1107M***
150	16 × 31.5	0.22	1300	B43044A1157M***
220	16 × 31.5	0.22	1300	B43044A1227M***
330	18 × 31.5	0.22	1700	B43044A1337M***
$V_R = 200 \text{ V DC}$				
22	10 × 20	1.5	440	B43044A2226M***
33	12.5 × 20	0.91	590	B43044A2336M***
47	12.5 × 20	0.91	780	B43044A2476M***
68	12.5 × 25	0.63	950	B43044A2686M***
100	16 × 25	0.27	1280	B43044A2107M***
150	18 × 25	0.27	1500	B43044A2157M***
220	18 × 31.5	0.22	1700	B43044A2227M***
$V_R = 250 \text{ V DC}$				
10	10 × 20	3.5	300	B43044F2106M***
22	12.5 × 20	2.3	480	B43044F2226M***
33	12.5 × 25	1.7	630	B43044F2336M***
47	12.5 × 25	1.7	630	B43044F2476M***
68	16 × 25	0.78	1000	B43044F2686M***
100	16 × 31.5	0.63	1400	B43044F2107M***
150	18 × 31.5	0.42	1450	B43044F2157M***
220	18 × 40	0.35	1485	B43044F2227M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

 016 = for taped leads, Ammo pack, lead spacing $F = 2.0 \text{ mm}$ (for $\varnothing 5 \text{ mm}$)

 007 = for taped leads, Ammo pack, lead spacing $F = 2.5 \text{ mm}$ (for $\varnothing 5 \dots 6.3 \text{ mm}$)

 006 = for taped leads, Ammo pack, lead spacing $F = 3.5 \text{ mm}$ (for $\varnothing 8 \text{ mm}$)

 008 = for taped leads, Ammo pack, lead spacing $F = 5.0 \text{ mm}$ (for $\varnothing 5 \dots 12.5 \text{ mm}$)

 009 = for taped leads, Ammo pack, lead spacing $F = 7.5 \text{ mm}$ (for $d \times l = 16 \times 20 \dots 16 \times 31.5 \text{ mm}$ and $18 \times 25 \dots 18 \times 31.5 \text{ mm}$)


B43044
Low impedance & high ripple current – 105 °C
Technical data and ordering codes – B43044

C_R	Case dimensions	Z_{max}	$I_{AC,R}$	Ordering code (composition see below)
120 Hz	$d \times l$	100 kHz	100 kHz	
20 °C	mm	20 °C	105 °C	
μF		Ω	mA	
$V_R = 350 V DC$				
10	10 × 20	2.9	180	B43044A4106M***
22	12.5 × 20	2.1	270	B43044A4226M***
33	16 × 20	0.91	600	B43044A4336M***
47	16 × 25	0.73	700	B43044A4476M***
68	16 × 31.5	0.49	1100	B43044A4686M***
100	18 × 31.5	0.40	1170	B43044A4107M***
$V_R = 400 V DC$				
10	10 × 20	2.9	180	B43044A9106M***
22	12.5 × 25	1.3	300	B43044A9226M***
33	16 × 25	0.91	600	B43044A9336M***
47	16 × 25	0.73	700	B43044A9476M***
68	18 × 31.5	0.49	1100	B43044A9686M***
100	18 × 40	0.34	1250	B43044A9107M***
$V_R = 450 V DC$				
3.3	10 × 20	6.5	150	B43044A5335M***
4.7	12.5 × 20	3.6	200	B43044A5475M***
10	12.5 × 25	2.5	315	B43044A5106M***
22	16 × 25	1.7	570	B43044A5226M***
33	16 × 31.5	1.1	620	B43044A5336M***
47	18 × 31.5	0.93	900	B43044A5476M***
68	18 × 35.5	0.71	980	B43044A5686M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

 016 = for taped leads, Ammo pack, lead spacing $F = 2.0$ mm (for $\varnothing 5$ mm)

 007 = for taped leads, Ammo pack, lead spacing $F = 2.5$ mm (for $\varnothing 5 \dots 6.3$ mm)

 006 = for taped leads, Ammo pack, lead spacing $F = 3.5$ mm (for $\varnothing 8$ mm)

 008 = for taped leads, Ammo pack, lead spacing $F = 5.0$ mm (for $\varnothing 5 \dots 12.5$ mm)

 009 = for taped leads, Ammo pack, lead spacing $F = 7.5$ mm (for $d \times l = 16 \times 20 \dots 16 \times 31.5$ mm and $18 \times 25 \dots 18 \times 31.5$ mm)

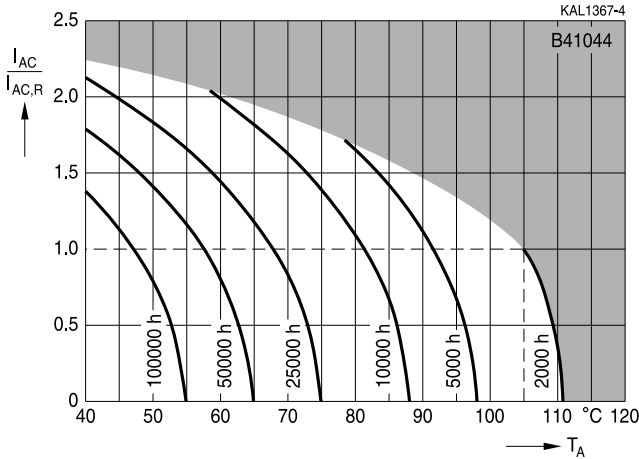


Useful life

depending on ambient temperature T_A under ripple current operating conditions¹⁾

$V_R \leq 100$ V DC

$d = 5 \dots 6.3$ mm

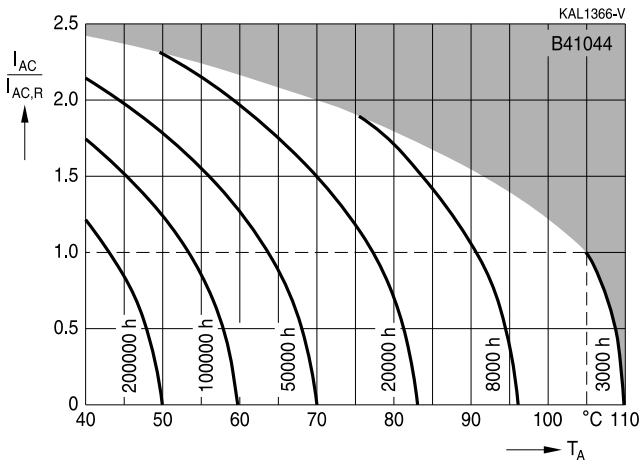


Useful life

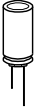
depending on ambient temperature T_A under ripple current operating conditions¹⁾

$V_R \leq 100$ V DC

$d = 8$ mm



1) Refer to chapter "General technical information, 5.3 Calculation of useful life" for an explanation on how to interpret the useful life graphs.



B41044, B43044

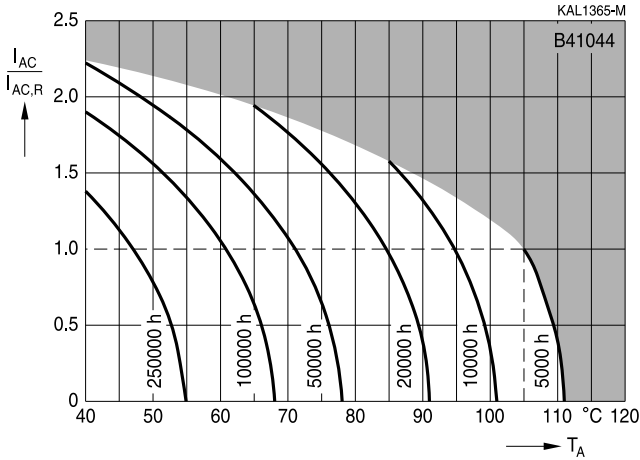
Low impedance & high ripple current – 105 °C

Useful life

depending on ambient temperature T_A under ripple current operating conditions²⁾

$V_R \leq 100$ V DC

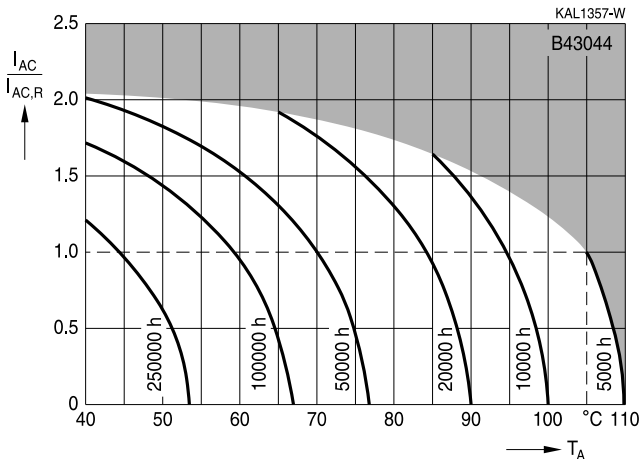
$d \geq 10$ mm



Useful life

depending on ambient temperature T_A under ripple current operating conditions²⁾

$V_R > 100$ V DC

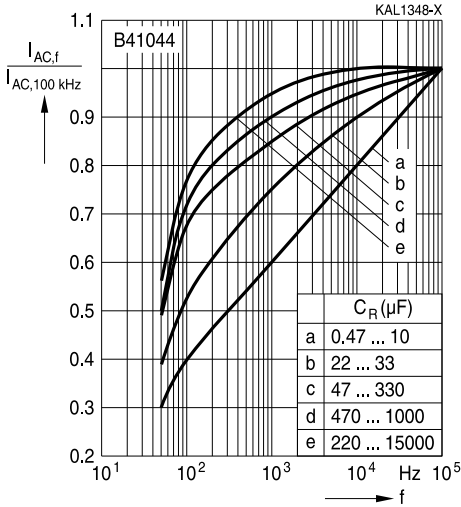


2) Refer to chapter "General technical information, 5.3 Calculation of useful life" for an explanation on how to interpret the useful life graphs.



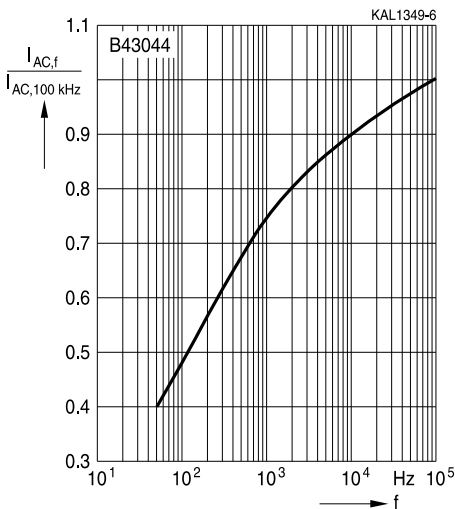
Frequency factor of permissible ripple current I_{AC} versus frequency f

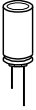
B41044



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

B43044





B41044, B43044

Low impedance & high ripple current – 105 °C

Taping, packing and lead configurations

Taping

Single-ended capacitors are available taped in Ammo pack from diameter 4 to 18 mm as follows:

Lead spacing $F = 2.0$ mm ($\varnothing d = 4 \dots 5$ mm)

Lead spacing $F = 2.5$ mm ($\varnothing d = 4 \dots 6.3$ mm)

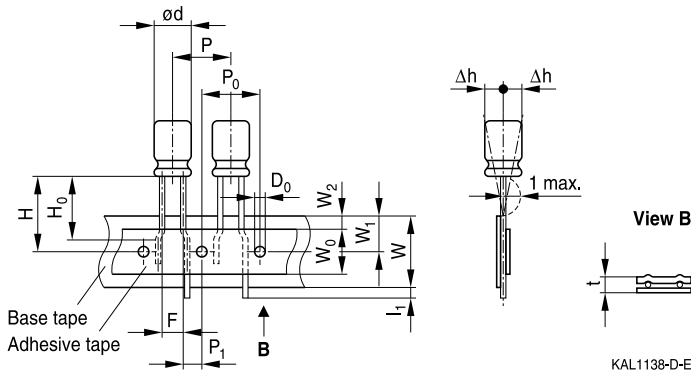
Lead spacing $F = 3.5$ mm ($\varnothing d = 8$ mm)

Lead spacing $F = 5.0$ mm ($\varnothing d = 4 \dots 12.5$ mm)

Lead spacing $F = 7.5$ mm ($\varnothing d = 16 \dots 18$ mm).

Lead spacing 2.0 mm ($\varnothing d = 4 \dots 5$ mm)

Last 3 digits of ordering code: 016

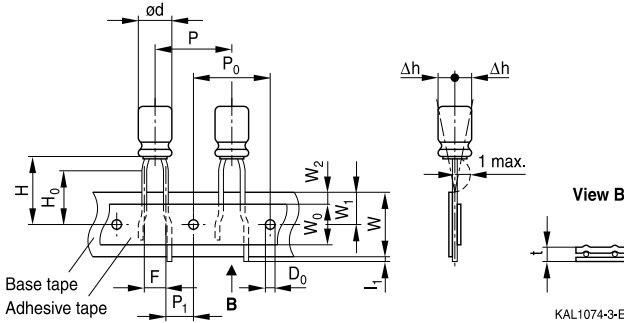


Dimensions in mm

$\varnothing d$	F	H	W	W_0	W_1	W_2	P	P_0	P_1	l_1	t	Δh	D_0
4 ... 5	2.0	18.5	18.0	7.0	9.0	3.0	12.7	12.7	5.10	1.0	0.7	1	4.0
	+0.8 -0.2	±0.75	±0.5	min.	±0.5	max.	±1.0	±0.3	±0.7	max.	±0.2	±1.0	±0.2


Lead spacing 2.5 mm ($\varnothing d = 4 \dots 6.3$ mm)

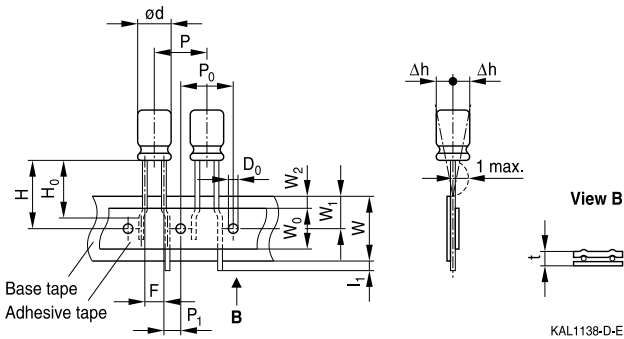
Last 3 digits of ordering code: 007


Dimensions in mm

$\varnothing d$	F	H	W	W_0	W_1	W_2	H_0	P	P_0	P_1	l_1	t	Δh	D_0
4 ... 6.3	2.5	18.5	18.0	5.5	9.0	1.5	16.0	12.7	12.7	5.1	1.0	0.7	1.0	4.0
Tolerance	+0.8 -0.2	± 0.75	± 0.5	min.	± 0.5	max.	± 0.5	± 1.0	± 0.2	± 0.5	max.	± 0.2	max.	± 0.2

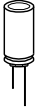
Lead spacing 3.5 mm ($\varnothing d = 8$ mm)

Last 3 digits of ordering code: 006


Dimensions in mm

$\varnothing d$	F	H	W	W_0	W_1	W_2	P	P_0	P_1	l_1	t	Δh	D_0
8	3.5	18.5	18.0	10	9.0	3.0	12.7	12.7	4.6	1.0	0.7	1.0	4.0
Tolerance	+0.8 -0.2	± 1.0	± 0.5	min.	± 0.5	max.	± 1.0	± 0.3	± 0.6	max.	± 0.2	max.	± 0.2

 Leads can also run straight through the taping area. Taping is available up to dimensions $d \times l = 8 \times 15$ mm.

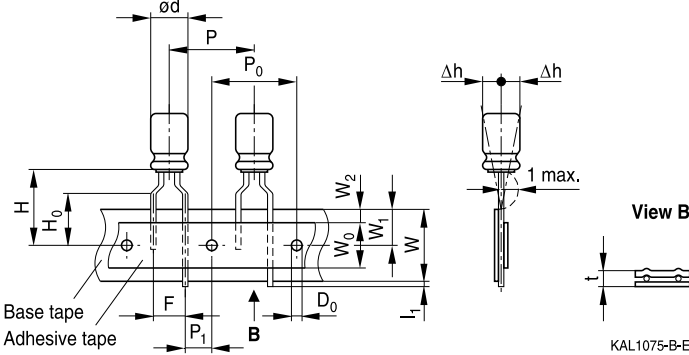


B41044, B43044

Low impedance & high ripple current – 105 °C

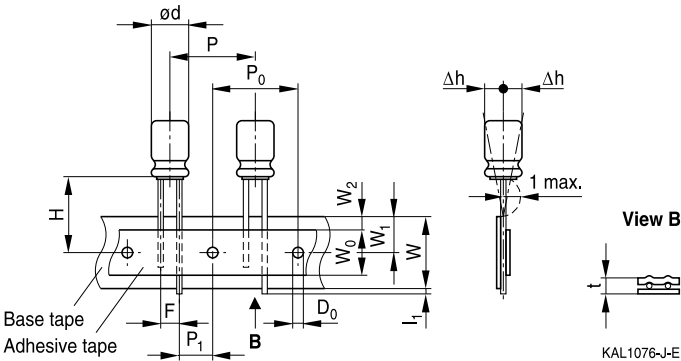
Lead spacing 5.0 mm (∅ d = 4 ... 8 mm)

Last 3 digits of ordering code: 008



Lead spacing 5.0 mm (∅ d = 10 ... 12.5 mm)

Last 3 digits of ordering code: 008



Dimensions in mm

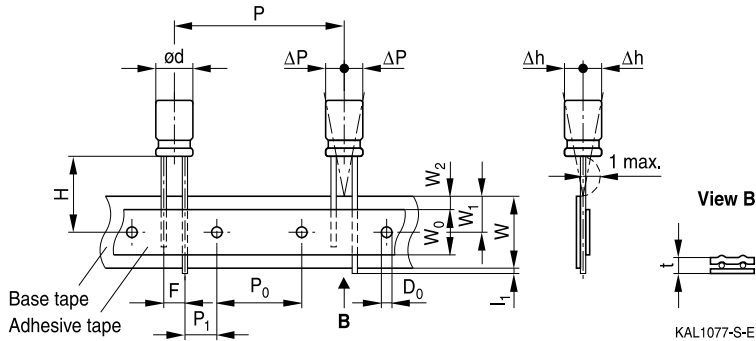
∅ d	F	H	W	W ₀	W ₁	W ₂	H ₀	P	P ₀	P ₁	l ₁	t	Δh	D ₀
4 ... 6.3	5.0	18.5	18.0	5.5	9.0	1.5	16.0	12.7	12.7	3.85	1.0	0.6	1.0	4.0
8	5.0	20.0	18.0	10.0	9.0	1.5	16.0	12.7	12.7	3.85	1.0	0.6	1.0	4.0
		19.0		12.5			12.7	12.7	3.85					
10	5.0	19.0	18.0	12.5	9.0	1.5	–	12.7	12.7	3.85	1.0	0.6	1.0	4.0
12.5		19.0		12.5			–	15.0	15.0	5.0				
Tolerance	+0.8 –0.2	±0.75	±0.5	min.	±0.5	max.	±0.5	±1.0	±0.2	±0.5	max.	+0.3 –0.2	max.	±0.2

Taping is available up to dimensions d × l = 10 × 31.5 mm and 12.5 × 25 mm.

Taping is not available for d × l = 8 × 20 mm.


Lead spacing 7.5 mm (∅ d = 16 ...18 mm)

Last 3 digits of ordering code: 009


Dimensions in mm

∅ d	F	H	W	W ₀	W ₁	W ₂	P	P ₀	P ₁	I ₁	t	ΔP	Δh	D ₀
16	7.5	18.5	18.0	12.5	9.0	1.5	30.0	15.0	3.75	1.0	0.7	0	0	4.0
18														
Tolerance	±0.8	-0.5 +0.75	±0.5	min.	±0.5	max.	±1.0	±0.2	±0.5	max.	±0.2	±1.0	±1.0	±0.2

Taping is available up to dimensions d × l = 16 × 31.5 mm and 18 × 31.5 mm.


B41044, B43044
Low impedance & high ripple current – 105 °C

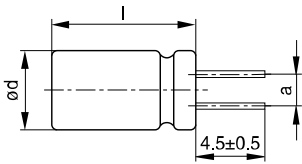
Cut or kinked leads

Single-ended capacitors are available with cut or kinked leads. Other lead configurations also available upon request.

Cut leads (Chapter A)

Available for series B41002, B41022, B41044, B41827, B41828, B43044, B43082, B43086, B43088, B43827, B43828.

Last 3 digits of ordering code: 002



KAL1086-R

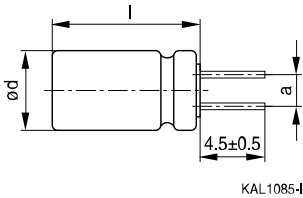
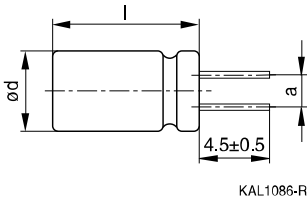
Case size d x l (mm)	Dimensions (mm) a ±0.5
4 x 7	1.5
5 x 7	2.0
5 x 11	2.0
6.3 x 7	2.5
6.3 x 11	2.5
8 x 7	3.5
8 x 11.5	3.5
8 x 15	3.5
8 x 20	3.5
10 x 12.5	5.0
10 x 16	5.0
10 x 20	5.0
10 x 25	5.0
10 x 31.5	5.0

Case size d x l (mm)	Dimensions (mm) a ±0.5
12.5 x 16	5.0
12.5 x 20	5.0
12.5 x 25	5.0
12.5 x 31.5	5.0
12.5 x 35.5	5.0
12.5 x 40	5.0
16 x 20	7.5
16 x 25	7.5
16 x 31.5	7.5
16 x 35.5	7.5
16 x 40	7.5
18 x 20	7.5
18 x 25	7.5
18 x 31.5	7.5
18 x 35.5	7.5
18 x 40	7.5

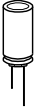

Cut leads (Chapter B)

Available for series B41858, B41859, B41863, B41866, B41868, B41888, B41890, B41896, B42824, B42851, B43866, B43867, B43890, B43896.

Last 3 digits of ordering code: 002

With stand-off rubber seal

With flat rubber seal


Case size d × l (mm)	Dimensions (mm) a ±0.5
10 × 12.5	5.0
10 × 16	5.0
10 × 20	5.0
12.5 × 20	5.0
12.5 × 25	5.0
16 × 20	7.5
16 × 25	7.5
16 × 31.5	7.5
16 × 35.5	7.5
18 × 20	7.5
18 × 25	7.5
18 × 31.5	7.5
18 × 35	7.5
18 × 40	7.5



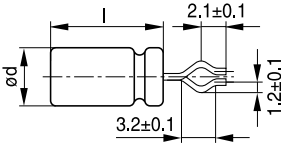
B41044, B43044

Low impedance & high ripple current – 105 °C

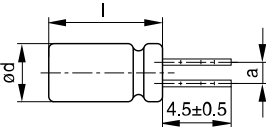
Kinked leads (Chapter A)

Available for series B41002, B41022, B41044, B41827, B41828, B43044, B43082, B43086, B43088, B43827, B43828.

Last 3 digits of ordering code: 001



KAL1137-5



KAL1084-A

Case size d x l (mm)	Dimensions (mm) a ±0.5
4 x 7	1.5
5 x 7	2.0
5 x 11	2.0
6.3 x 7	2.5
6.3 x 11	2.5
8 x 7	3.5
8 x 11.5	3.5
8 x 15	3.5
8 x 20	3.5
10 x 12.5	5.0
10 x 16	5.0
10 x 20	5.0
10 x 25	5.0
10 x 31.5	5.0

Case size d x l (mm)	Dimensions (mm) a ±0.5
12.5 x 16	5.0
12.5 x 20	5.0
12.5 x 25	5.0
12.5 x 31.5	5.0
12.5 x 35.5	5.0
12.5 x 40	5.0
16 x 20	7.5
16 x 25	7.5
16 x 31.5	7.5
16 x 35.5	7.5
16 x 40	7.5
18 x 20	7.5
18 x 25	7.5
18 x 31.5	7.5
18 x 35.5	7.5
18 x 40	7.5

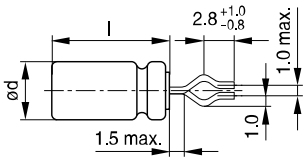


Kinked leads (Chapter B)

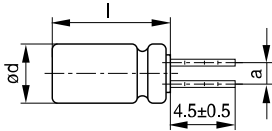
Available for series B41858, B41859, B41863, B41866, B41868, B41888, B41890, B41896, B42824, B42851, B43866, B43867, B43890, B43896.

Last 3 digits of ordering code: 001

With stand-off rubber seal

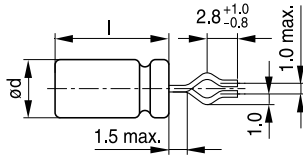


KAL1081-K

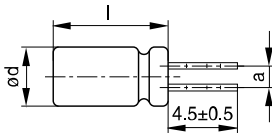


KAL1083-2

With flat rubber seal



KAL1082-T



KAL1084-A

Case size d × l (mm)	Dimensions (mm) a ±0.5
10 × 20	5.0
12.5 × 20	5.0
12.5 × 25	5.0
16 × 20	7.5
16 × 25	7.5
16 × 31.5	7.5
16 × 35.5	7.5
18 × 20	7.5
18 × 25	7.5
18 × 31.5	7.5
18 × 35	7.5
18 × 40	7.5