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Aluminum electrolytic capacitors

Single-ended capacitors

Series/Type: B43888
Date: December 2010

Long-life grade capacitors

Applications

- Professional electronic ballasts
- Power supplies
- Energy-saving lamps

Features

- Compact dimensions
- High ripple current capability at high frequency
- Very long useful life (8000 to 12000 h/105 °C)
- RoHS-compatible

Construction

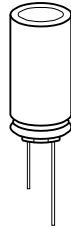
- Radial leads
- Charge-discharge proof, polar
- Aluminum case with insulating sleeve
- Minus pole marking on the insulating sleeve
- Case with safety vent

Delivery mode

Special terminal configurations and packing:

- Bulk
- Taped, Ammo pack
- Cut (see chapter "Single-ended – Taping, packing and lead configurations, Cut leads (Chapter B)")
- Kinked (see chapter "Single-ended – Taping, packing and lead configurations, Kinked leads (Chapter B)")
- PAPR (protection against polarity reversal):
crimped leads, J leads, bent leads

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




Specifications and characteristics in brief

Rated voltage V_R	160 ... 450 V DC				
Surge voltage V_S	$1.1 \cdot V_R$				
Rated capacitance C_R	3.3 ... 330 μF				
Capacitance tolerance	$\pm 20\% \triangle M$				
Dissipation factor $\tan \delta$ (20 °C, 120 Hz)	$V_R \leq 350$ V DC: $\tan \delta$ (max.) = 0.20 $V_R \geq 400$ V DC: $\tan \delta$ (max.) = 0.24				
Leakage current I_{leak} (20 °C, 5 min)	$I_{\text{leak}} = 0.03 \mu\text{A} \cdot \left(\frac{C_R}{\mu\text{F}} \cdot \frac{V_R}{\text{V}} \right) + 15 \mu\text{A}$				
Self-inductance ESL	Diameter (mm)	≤ 12.5	16	18	20
	ESL (nH)	20	26	34	38
Useful life	8000 h for $d = 10$ mm 10000 h for $d \geq 12.5$ mm and $V_R \geq 350$ V DC 12000 h for $d \geq 12.5$ mm and $V_R \leq 250$ V DC				
105 °C; V_R ; $I_{\text{AC,R}}$ 105 °C; V_R ; $I_{\text{AC,R}}$					
Requirements	$\Delta C/C \leq \pm 35\%$ of initial value $\tan \delta \leq 3$ times initial specified limit $I_{\text{leak}} \leq$ initial specified limit				
Voltage endurance test	8000 h for $d = 10$ mm 10000 h for $d \geq 12.5$ mm and $V_R \geq 350$ V DC 12000 h for $d \geq 12.5$ mm and $V_R \leq 250$ V DC				
105 °C; V_R					
Post test requirements	$\Delta C/C \leq \pm 25\%$ of initial value $\tan \delta \leq 2$ times initial specified limit $I_{\text{leak}} \leq$ initial specified limit				
Vibration resistance test	To IEC 60068-2-6, test Fc: Frequency range 10 Hz ... 2 kHz, displacement amplitude 1.5 mm, acceleration max. 20 g, duration 3×2 h. Capacitor rigidly clamped by the aluminum case.				
IEC climatic category	To IEC 60068-1: $V_R \leq 250$ V: 40/105/56 (–40 °C/+105 °C/56 days damp heat test) $V_R \geq 350$ V: 25/105/56 (–25 °C/+105 °C/56 days damp heat test)				
Sectional specification	IEC 60384-4				



B43888

Extended useful life – 105 °C

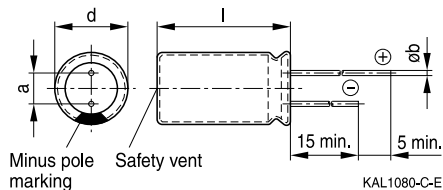
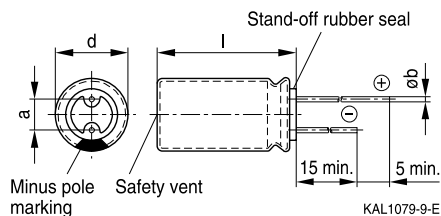
Dimensional drawings

With stand-off rubber seal

Diameters (mm): 10, 12.5, 16, 18

With flat rubber seal

Diameter (mm): 20



Dimensions and weights

Dimensions (mm)				Approx. weight
d +0.5	l	a ±0.5	b	g
10	12.5 +1.0	5.0	0.60 ±0.05	1.6
10	16 +1.0	5.0	0.60 ±0.05	1.9
10	20 +2.0	5.0	0.60 ±0.05	2.6
12.5	20 +2.0	5.0	0.60 ±0.05	3.6
12.5	25 +2.0	5.0	0.60 ±0.05	4.5
12.5	30 +2.0	5.0	0.80 ±0.05	5.3
12.5	35 +2.0	5.0	0.80 ±0.05	6.4
12.5	40 +2.0	5.0	0.80 ±0.05	7.4
16	25 +2.0	7.5	0.80 ±0.05	7.5
16	31.5 +2.0	7.5	0.80 ±0.05	7.8
18	20 +2.0	7.5	0.80 ±0.1	8.0
18	31.5 +2.0	7.5	0.80 ±0.1	11.0
18	35 +2.0	7.5	0.80 ±0.1	13.0
18	40 +2.0	7.5	0.80 ±0.1	16.0
20	40 +2.0	10.0	1.00 ±0.1	20.0


Overview of available types

V_R (V DC)	160	250	350	400	450
	Case dimensions $d \times l$ (mm)				
C_R (μF)					
3.3			10 × 12.5	10 × 16	
4.7		10 × 12.5	10 × 12.5	10 × 16	10 × 16
6.8		10 × 16	10 × 16	10 × 20	10 × 20
10		10 × 16	10 × 20	12.5 × 20	12.5 × 20 12.5 × 25
15			12.5 × 20	12.5 × 25	12.5 × 25 12.5 × 30
22	10 × 16	12.5 × 20	12.5 × 25	12.5 × 30	12.5 × 35 18 × 20
33	10 × 20	12.5 × 25	16 × 25	16 × 31.5	16 × 31.5
47	12.5 × 20	12.5 × 30	16 × 31.5	18 × 31.5	18 × 35
68	12.5 × 25	12.5 × 40	18 × 31.5	18 × 40	
100	16 × 25	18 × 31.5	18 × 40		
150		18 × 40			
220	18 × 35				
330	20 × 40				

Other voltage and capacitance ratings are available upon request.


Technical data and ordering codes

C_R	Case dimensions	$I_{AC,R}$	$I_{AC,max}$	Ordering code (composition see below)
120 Hz 20 °C µF	d × l mm	100 kHz 105 °C mA	100 kHz 85 °C mA	
$V_R = 160$ V DC				
22	10 × 16	380	646	B43888C1226M***
33	10 × 20	500	850	B43888C1336M***
47	12.5 × 20	750	1275	B43888C1476M***
68	12.5 × 25	1200	2040	B43888C1686M***
100	16 × 25	1450	2465	B43888C1107M***
220	18 × 35	2400	4080	B43888C1227M***
330	20 × 40	3200	5440	B43888C1337M***
$V_R = 250$ V DC				
4.7	10 × 12.5	160	272	B43888C2475M***
6.8	10 × 16	250	425	B43888C2685M***
10	10 × 16	320	544	B43888C2106M***
22	12.5 × 20	500	850	B43888C2226M***
33	12.5 × 25	800	1360	B43888C2336M***
47	12.5 × 30	1000	1700	B43888C2476M***
68	12.5 × 40	1300	2210	B43888C2686M***
100	18 × 31.5	1450	2465	B43888C2107M***
150	18 × 40	2000	3400	B43888C2157M***
$V_R = 350$ V DC				
3.3	10 × 12.5	120	204	B43888C4335M***
4.7	10 × 12.5	150	255	B43888C4475M***
6.8	10 × 16	280	476	B43888C4685M***
10	10 × 20	350	595	B43888C4106M***
15	12.5 × 20	600	1020	B43888C4156M***
22	12.5 × 25	700	1190	B43888C4226M***
33	16 × 25	900	1530	B43888C4336M***
47	16 × 31.5	1100	1870	B43888C4476M***
68	18 × 31.5	1500	2550	B43888C4686M***
100	18 × 40	1700	2890	B43888C4107M***

Composition of ordering code

*** = Version

- 000 = for standard leads, bulk
- 001 = for kinked leads, bulk (from d × l = 10 × 20 mm to 18 × 40 mm, excluding 12.5 × 30/35/40 mm)
- 002 = for cut leads, bulk (excluding 12.5 × 30/35/40 mm)
- 003 = for crimped leads, blister (from d × l = 16 × 25 mm to 20 × 40 mm)
- 004 = for J leads, blister (from d × l = 10 × 12.5 mm to 18 × 31.5 mm, excluding 12.5 × 30/35/40 mm)
- 008 = for taped leads, Ammo pack, lead spacing F = 5.0 mm (from d × l = 10 × 16 mm to 12.5 × 25 mm)
- 009 = for taped leads, Ammo pack, lead spacing F = 7.5 mm (for ∅ 16 and 18 × 20 ... 18 × 31.5 mm)
- 012 = for bent 90° leads, blister (for ∅ 16 and 18 mm)


Technical data and ordering codes

C_R	Case dimensions	$I_{AC,R}$	$I_{AC,max}$	Ordering code (composition see below)
120 Hz	$d \times l$	100 kHz	100 kHz	
20 °C	mm	105 °C	85 °C	
μF		mA	mA	
$V_R = 400$ V DC				
3.3	10 × 16	180	306	B43888C9335M***
4.7	10 × 16	220	374	B43888C9475M***
6.8	10 × 20	280	476	B43888C9685M***
10	12.5 × 20	350	595	B43888C9106M***
15	12.5 × 25	550	935	B43888C9156M***
22	12.5 × 30	750	1275	B43888C9226M***
33	16 × 31.5	900	1530	B43888C9336M***
47	18 × 31.5	1200	2040	B43888C9476M***
68	18 × 40	1500	2550	B43888C9686M***
$V_R = 450$ V DC				
4.7	10 × 16	180	306	B43888C5475M***
6.8	10 × 20	250	425	B43888C5685M***
10	12.5 × 20	450	765	B43888C5106M***
10	12.5 × 25	500	850	B43888D5106M***
15	12.5 × 25	500	850	B43888C5156M***
15	12.5 × 30	600	1020	B43888D5156M***
22	12.5 × 35	650	1105	B43888C5226M***
22	18 × 20	700	1190	B43888D5226M***
33	16 × 31.5	1000	1700	B43888C5336M***
47	18 × 35	1200	2040	B43888C5476M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk

 001 = for kinked leads, bulk (from $d \times l = 10 \times 20$ mm to 18×40 mm, excluding $12.5 \times 30/35/40$ mm)

 002 = for cut leads, bulk (excluding $12.5 \times 30/35/40$ mm)

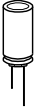
 003 = for crimped leads, blister (from $d \times l = 16 \times 25$ mm to 20×40 mm)

 004 = for J leads, blister (from $d \times l = 10 \times 12.5$ mm to 18×31.5 mm, excluding $12.5 \times 30/35/40$ mm)

 008 = for taped leads, Ammo pack, lead spacing $F = 5.0$ mm (from $d \times l = 10 \times 16$ mm to 12.5×25 mm)

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

 012 = for bent 90° leads, blister (for $\varnothing 16$ and 18 mm)



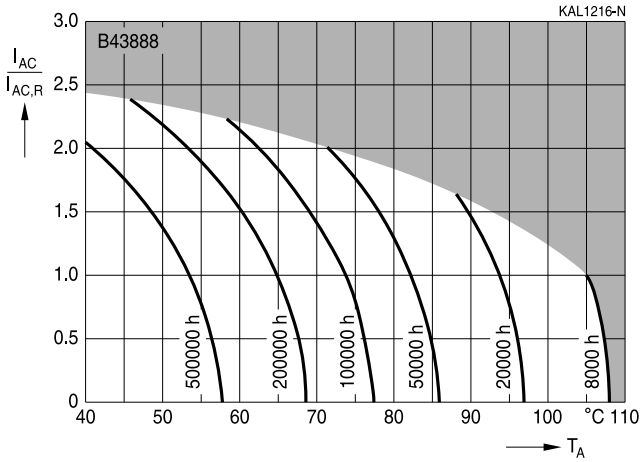
B43888

Extended useful life – 105 °C

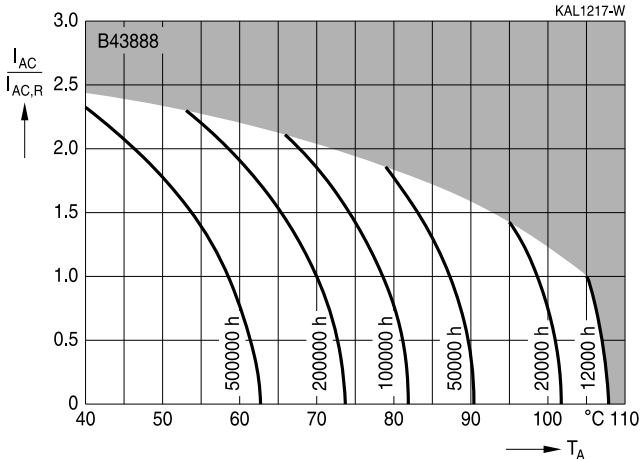
Useful life

depending on ambient temperature T_A under ripple current operating conditions¹⁾

$d = 10 \text{ mm}$



$d \geq 12.5 \text{ mm}$ and $V_R \leq 250 \text{ V}$



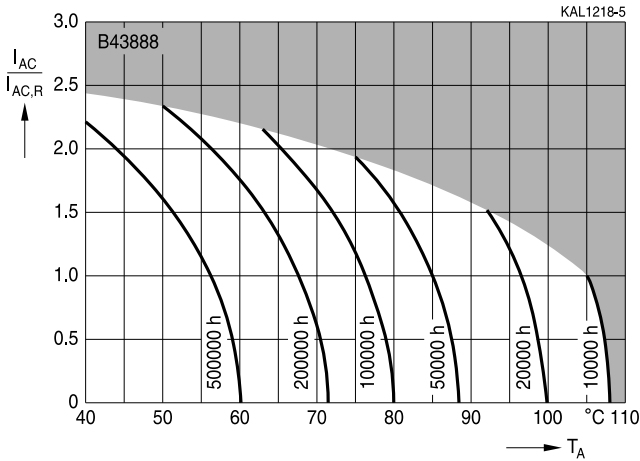
1) Refer to chapter "General technical information, 5.3 Calculation of useful life" for an explanation on how to interpret the useful life graphs.



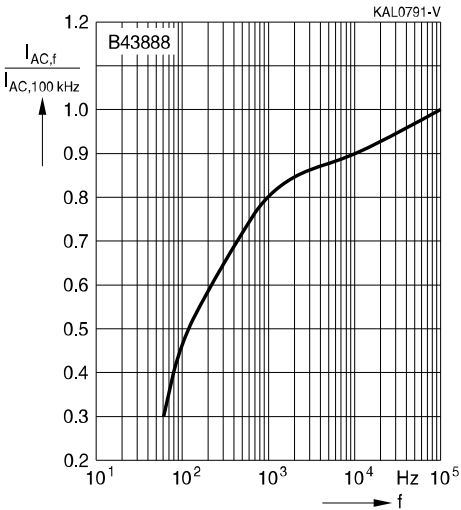
Useful life

depending on ambient temperature T_A under ripple current operating conditions²⁾

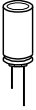
$d \geq 12.5$ mm and $V_R \geq 350$ V



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



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



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Extended useful life – 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)

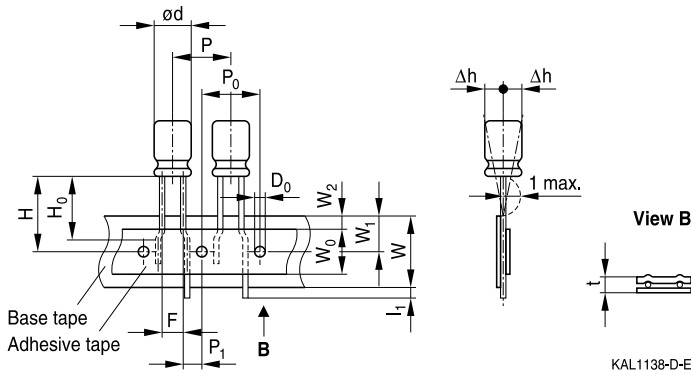
Lead spacing $F = 3.5$ mm ($\varnothing d = 8$ mm)

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

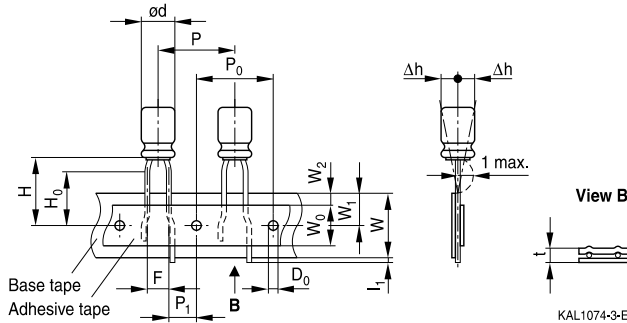


Dimensions in mm

$\varnothing d$	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 (∅ d = 4 ... 6.3 mm)

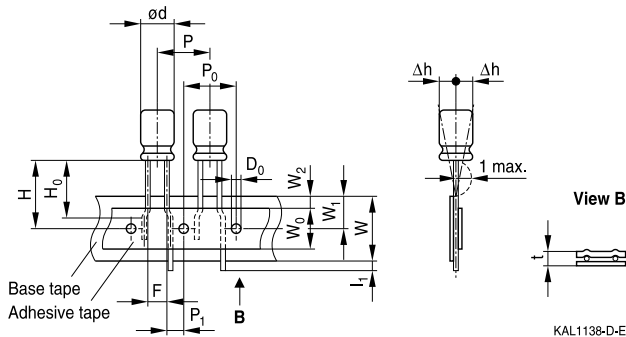
Last 3 digits of ordering code: 007


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	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

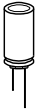
Lead spacing 3.5 mm (∅ d = 8 mm)

Last 3 digits of ordering code: 006


Dimensions in mm

∅ 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.

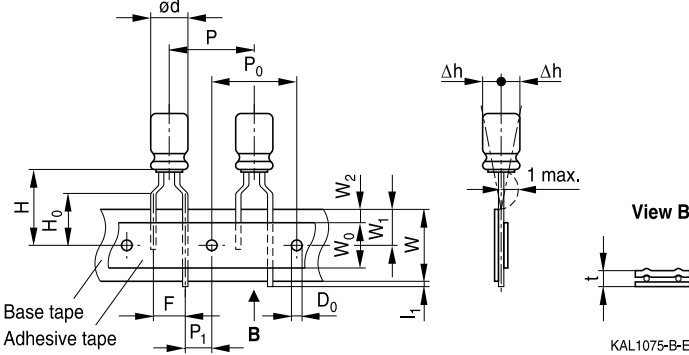


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Extended useful life – 105 °C

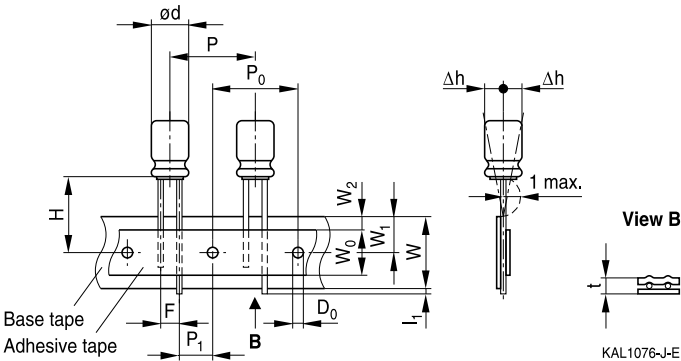
Lead spacing 5.0 mm (∅ d = 4 ... 8 mm)

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

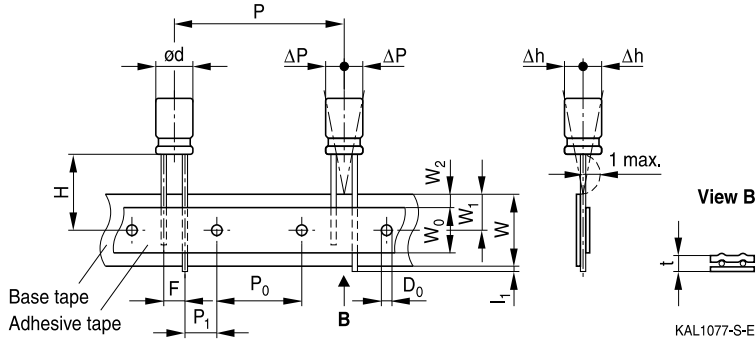
∅ d	F	H	W	W ₀	W ₁	W ₂	H ₀	P	P ₀	P ₁	l ₁	t	Δh	D ₀
4 ... 6.3	5.0	18.5	18.0	5.5	9.0	1.5	16.0	12.7	12.7	3.85	1.0	0.6	1.0	4.0
8	5.0	20.0	18.0	10.0	9.0	1.5	16.0	12.7	12.7	3.85	1.0	0.6	1.0	4.0
		19.0		12.5			12.7	3.85						
10	5.0	19.0	18.0	12.5	9.0	1.5	–	12.7	12.7	3.85	1.0	0.6	1.0	4.0
12.5		19.0		12.5			–	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 = 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.



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Extended useful life – 105 °C

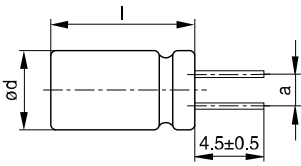
Cut or kinked leads

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

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

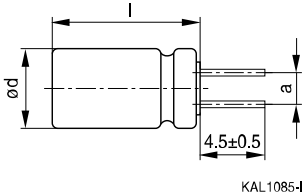


Cut leads (Chapter B)

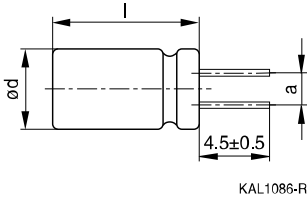
Available for series B41858, B41859, B41863, B41866, B41868, B41888, B41890, B41896, B42824, B42851, B43866, B43867, B43890, B43896.

Last 3 digits of ordering code: 002

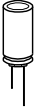
With stand-off rubber seal



With flat rubber seal



Case size $d \times l$ (mm)	Dimensions (mm) $a \pm 0.5$
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



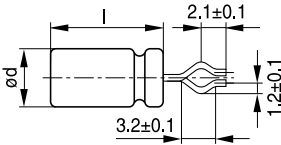
B43888

Extended useful life – 105 °C

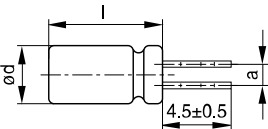
Kinked leads (Chapter A)

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

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

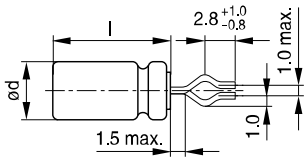


Kinked leads (Chapter B)

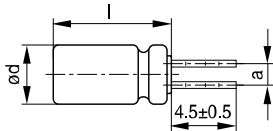
Available for series B41858, B41859, B41863, B41866, B41868, B41888, B41890, B41896, B42824, B42851, B43866, B43867, B43890, B43896.

Last 3 digits of ordering code: 001

With stand-off rubber seal

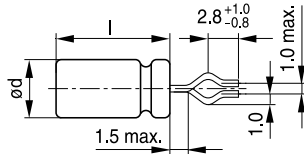


KAL1081-K

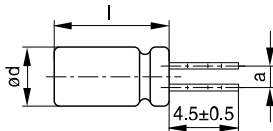


KAL1083-2

With flat rubber seal

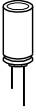


KAL1082-T



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



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Extended useful life – 105 °C

PAPR leads (Protection Against Polarity Reversal)

These lead configurations ensure correct placement of the capacitor on the PCB with regard to polarity. PAPR leads are available for diameters from 10 mm up to 18 mm.

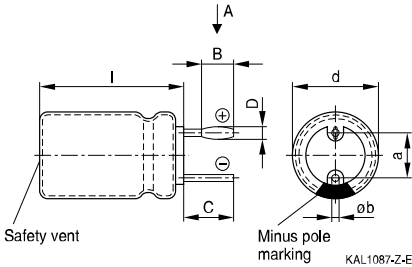
There are three configurations available: Crimped leads, J leads, bent 90° leads

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

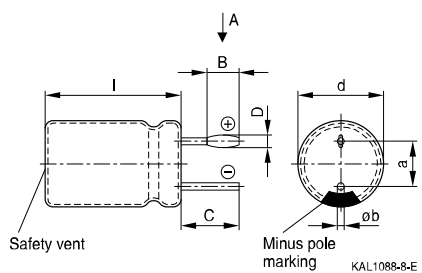
Crimped leads

Last 3 digits of ordering code: 003

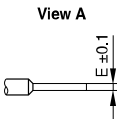
With stand-off rubber seal



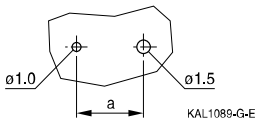
With flat rubber seal



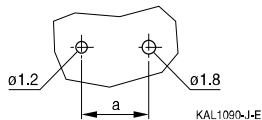
Suggestion for PCB hole diameter



Suggestion for PCB hole diameter, wire ø0.8 mm



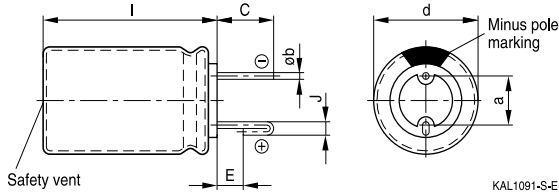
Suggestion for PCB hole diameter, wire ø1.0 mm

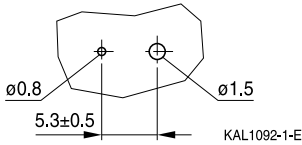
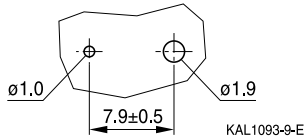


Case size d × l (mm)	Dimensions (mm)					
	B ±0.2	C ±0.5	D ±0.1	E ±0.1	a ±0.5	Øb
16 × 20	1.5	3.0	1.3	0.3	7.5	0.8 ±0.05
16 × 25	1.5	3.0	1.3	0.3	7.5	0.8 ±0.05
16 × 31.5	1.5	3.0	1.3	0.3	7.5	0.8 ±0.05
16 × 35.5	1.5	3.0	1.3	0.3	7.5	0.8 ±0.05
18 × 20	1.5	3.0	1.3	0.3	7.5	0.8 ±0.1
18 × 25	1.5	3.0	1.3	0.3	7.5	0.8 ±0.1
18 × 31.5	1.5	3.0	1.3	0.3	7.5	0.8 ±0.1
18 × 35	1.5	3.0	1.3	0.3	7.5	0.8 ±0.1
18 × 40	1.5	3.0	1.3	0.3	7.5	0.8 ±0.1

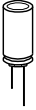

J leads

Last 3 digits of ordering code: 004


Suggestion for PCB hole diameter

 Suggestion for PCB hole diameter,
wire $\varnothing 0.6$ mm

 Suggestion for PCB hole diameter,
wire $\varnothing 0.8$ mm


Case size $d \times l$ (mm)	Dimensions (mm)				
	$C \pm 0.5$	$E \pm 0.5$	$J \pm 0.2$	$a \pm 0.5$	$\varnothing b$
10 × 12.5	3.2	0.7	1.2	5.0	0.6 ± 0.05
10 × 16	3.2	0.7	1.2	5.0	0.6 ± 0.05
10 × 20	3.2	0.7	1.2	5.0	0.6 ± 0.05
12.5 × 20	3.2	0.7	1.2	5.0	0.6 ± 0.05
12.5 × 25	3.2	0.7	1.2	5.0	0.6 ± 0.05
16 × 20	3.5	0.7	1.6	7.5	0.8 ± 0.05
16 × 25	3.5	0.7	1.6	7.5	0.8 ± 0.05
16 × 31.5	3.5	0.7	1.6	7.5	0.8 ± 0.05
16 × 35.5	3.5	0.7	1.6	7.5	0.8 ± 0.05
18 × 20	3.5	0.7	1.6	7.5	0.8 ± 0.1
18 × 25	3.5	0.7	1.6	7.5	0.8 ± 0.1
18 × 31.5	3.5	0.7	1.6	7.5	0.8 ± 0.1
18 × 35	3.5	0.7	1.6	7.5	0.8 ± 0.1

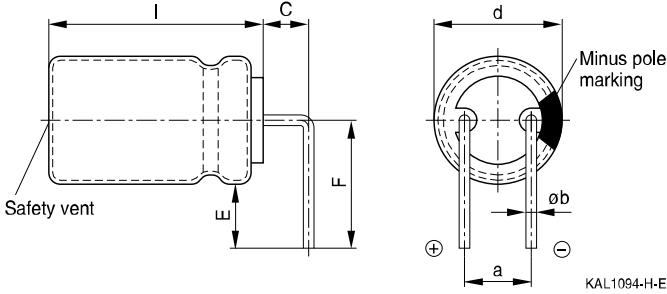


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Bent 90° leads for horizontal mounting pinning

Last 3 digits of ordering code: 012



Case size $d \times l$ (mm)	Dimensions (mm)				
	$C \pm 0.5$	$E \pm 0.5$	$F \pm 0.5$	$a \pm 0.5$	$\varnothing b$
16 × 20	4.0	4.0	12.0	7.5	0.8 ±0.05
16 × 25	4.0	4.0	12.0	7.5	0.8 ±0.05
16 × 31.5	4.0	4.0	12.0	7.5	0.8 ±0.05
16 × 35.5	4.0	4.0	12.0	7.5	0.8 ±0.05
18 × 20	4.0	4.0	13.0	7.5	0.8 ±0.1
18 × 25	4.0	4.0	13.0	7.5	0.8 ±0.1
18 × 31.5	4.0	4.0	13.0	7.5	0.8 ±0.1
18 × 35	4.0	4.0	13.0	7.5	0.8 ±0.1
18 × 40	4.0	4.0	13.0	7.5	0.8 ±0.1

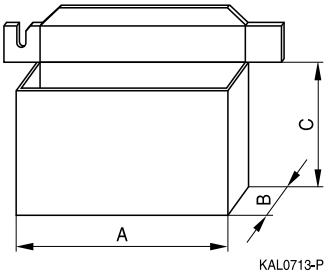
Bent leads for diameter 12.5 mm available upon request.



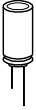
Packing units and box dimensions

Ammo pack

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



Case size d × l mm	Dimensions (mm)			Packing units pcs.
	A _{max}	B _{max}	C _{max}	
4 × 7	330	50	196	2000
5 × 7	330	50	226	2000
5 × 11	330	50	226	2000
6.3 × 7	330	50	286	2000
6.3 × 11	330	50	286	2000
8 × 7	330	50	246	1000
8 × 11.5	330	50	246	1000
8 × 15	330	50	246	500
10 × 12.5	330	50	196	500
10 × 16	330	54	196	500
10 × 20	330	58	196	500
12.5 × 20	341	60	272	500
12.5 × 25	341	65	272	500
16 × 25	320	65	270	300
16 × 31.5	315	65	275	300
18 × 20	315	65	275	250
18 × 25	315	65	275	250
18 × 31.5	315	65	275	250

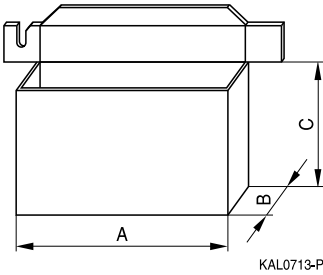


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Extended useful life – 105 °C

Ammo pack

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

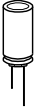


Case size d × l mm	Dimensions (mm)			Packing units pcs.
	A _{max}	B _{max}	C _{max}	
8 × 11.5	345	55	240	1000
10 × 12.5	345	55	280	750
10 × 16	345	60	200	500
10 × 20	345	60	200	500
12.5 × 20	345	65	280	500
12.5 × 25	345	65	280	500
16 × 20	315	65	275	300
16 × 25	315	65	275	300
16 × 31.5	315	65	275	300
18 × 20	315	65	275	250
18 × 25	315	65	275	250
18 × 31.5	315	65	275	250


Overview of packing units and code numbers for case sizes 4 x 7 ... 16 x 40

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

Case size d x l mm	Standard, bulk pcs.	Taped, Ammo pack pcs.	Kinked leads, bulk pcs.	Cut leads, bulk pcs.		
4 x 7	10000	2000	15000	15000		
5 x 7	7500	2000	10000	10000		
5 x 11	5000	2000	10000	10000		
6.3 x 7	5000	2000	10000	10000		
6.3 x 11	5000	2000	5000	5000		
8 x 7	5000	1000	5000	5000		
8 x 11.5	2500	1000	4000	4000		
8 x 15	2000	1000	2500	2500		
8 x 20	1500	–	2000	2000		
10 x 12.5	2000	500	2500	2500		
10 x 16	1500	500	2000	2000		
10 x 20	1000	500	1500	1500		
10 x 25	1000	500	1250	1250		
12.5 x 16	750	500	1000	1000		
12.5 x 20	750	500	500	500		
12.5 x 25	750	500	500	500		
12.5 x 31.5	500	–	750	750		
12.5 x 35.5	500	–	750	750		
12.5 x 40	500	–	750	750		
16 x 20	375	300	500	500		
16 x 25	375	300	500	500		
16 x 31.5	250	300	375	375		
16 x 35.5	250	–	375	375		
16 x 40	250	–	375	375		
The last three digits of the complete ordering code state the lead configuration	000	Code	F (mm)	d (mm)	001	002
		006	3.5	8		
		007	2.5	4 ... 6.3		
		008	5.0	4 ... 12.5		
		009	7.5	16 ... 18		
		016	2.0	4 ... 5		


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Extended useful life – 105 °C
Overview of packing units and code numbers for case sizes 18 x 20 ... 18 x 40

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

Case size d x l mm	Standard, bulk pcs.	Taped, Ammo pack pcs.			Kinked leads, bulk pcs.	Cut leads, bulk pcs.
18 x 20	250	250			100	100
18 x 25	250	250			100	100
18 x 31.5	250	250			100	100
18 x 35.5	250	–			100	100
18 x 40	250	–			100	100
The last three digits of the complete ordering code state the lead configuration	000	Code	F (mm)	d (mm)	001	002
		009	7.5	16 ... 18		


Overview of packing units and code numbers for case sizes 8 × 11.5 ... 16 × 35.5

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

					PAPR				
Case size d × l	Stan- dard, bulk	Taped, Ammo pack			Kinked leads, bulk	Cut leads, bulk	Crimped leads, blister	J leads, blister	Bent 90° leads, blister
mm	pcs.	pcs.		pcs.	pcs.	pcs.	pcs.	pcs.	
8 × 11.5	1000	1000		–	–	–	–		
10 × 12.5	1000	750		–	1000	–	675		
10 × 16	1000	500		–	1000	–	675		
10 × 20	500	500		500	500	–	500		
12.5 × 20	350	500		350	350	–	300	1)	
12.5 × 25	250	500		500	500	–	225	1)	
12.5 × 30	200	–		–	–	–	–		
12.5 × 35	175	–		–	–	–	–		
12.5 × 40	175	–		–	–	–	–		
16 × 20	250	300		200	200	200	200	120	
16 × 25	250	300		200	200	200	200	120	
16 × 31.5	200	300		250	250	344	344	120	
16 × 35.5	100	–		100	100	150	150	150	
The last three digits of the complete ordering code state the lead configuration	000	Code	F (mm)	d (mm)	001	002	003	004	012
		006	3.5	8					
		008	5	5...12.5					
		009	7.5	16...18					

1) Available upon request