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Aluminum electrolytic capacitors

Single-ended capacitors

Series/Type: B41828, B43828

Date: December 2010

General-purpose grade capacitors

Applications

- General-purpose applications
- Semi-professional to professional application range
- For filtering, coupling and pulse circuits

Features

- Miniaturized dimensions
- RoHS-compatible
- Useful life of 2000 h at 105 °C

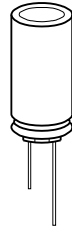
Construction

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

Delivery mode

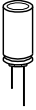
- Bulk
- Taped, Ammo pack
- Cut (see chapter "Single-ended – Taping, packing and lead configurations, Cut leads (Chapter A)")
- Kinked (see chapter "Single-ended – Taping, packing and lead configurations, Kinked leads (Chapter A)")

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




Specifications and characteristics in brief

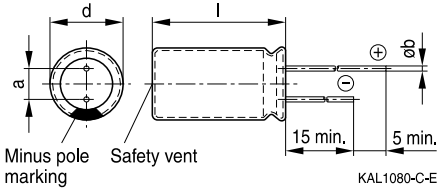
Series	B41828		B43828								
Rated voltage V_R	6.3 ... 100 V DC		160 ... 450 V DC								
Surge voltage V_S	$V_R \leq 250$ V DC: $1.15 \cdot V_R$ (at room temperature) $V_R > 250$ V DC: $1.1 \cdot V_R$ (at room temperature)										
Rated capacitance C_R	0.47 ... 15000 μ F		0.47 ... 220 μ F								
Capacitance tolerance	$\pm 20\% \triangleq M$		$\pm 20\% \triangleq M$								
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	315
										... 250	... 450
	$\tan \delta$	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.12	0.15
Leakage current I_{leak} (20 °C, after 5 minutes)	$I_{leak} \leq 0.01 \mu A \cdot \left(\frac{C_R}{\mu F} \cdot \frac{V_R}{V} \right)$ or 3 μA , whichever is greater				$I_{leak} \leq 0.03 \mu A \cdot \left(\frac{C_R}{\mu F} \cdot \frac{V_R}{V} \right) + 10 \mu A$						
Useful life 105 °C; V_R ; $I_{AC,R}$	> 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.										
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 3×0.5 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: $V_R \leq 200$ V DC: 40/105/56 (–40 °C/+105 °C/56 days damp heat test) $V_R \geq 250$ V DC: 25/105/56 (–25 °C/+105 °C/56 days damp heat test)										



B41828, B43828

Standard series – 105 °C

Dimensional drawing



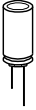
Safety vent for diameter ≥ 8 mm.

Case Dimensions

$d \times l$ mm	$d_{\max} \times l_{\max}$ mm	a mm	b mm
5 × 11	5.5 × 12.5	2.0 ±0.5	0.50 ±0.1
6.3 × 11	6.8 × 12.5	2.5 ±0.5	0.50 ±0.1
8 × 11.5	8.5 × 13.0	3.5 ±0.5	0.60 ±0.1
10 × 12.5	11.0 × 14.0	5.0 ±0.5	0.60 ±0.1
10 × 16	11.0 × 17.5	5.0 ±0.5	0.60 ±0.1
10 × 20	11.0 × 22.0	5.0 ±0.5	0.60 ±0.1
12.5 × 20	13.5 × 22.0	5.0 ±0.5	0.60 ±0.1
12.5 × 25	13.5 × 27.0	5.0 ±0.5	0.60 ±0.1
16 × 25	17.0 × 27.0	7.5 ±0.5	0.80 ±0.1
16 × 31.5	17.0 × 33.5	7.5 ±0.5	0.80 ±0.1
16 × 35.5	17.0 × 37.5	7.5 ±0.5	0.80 ±0.1
18 × 35.5	19.0 × 37.5	7.5 ±0.5	0.80 ±0.1


Overview of available types – B41828

V_R (V DC)	6.3	10	16	25
	Case dimensions $d \times l$ (mm)			
C_R (μF)				
10			5 × 11	5 × 11
20			5 × 11	
33			5 × 11	
47	5 × 11	5 × 11	5 × 11	5 × 11
100	5 × 11	5 × 11	6.3 × 11	6.3 × 11
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	8 × 11.5	10 × 16
1000	10 × 12.5	10 × 16	10 × 20	10 × 20
2200	12.5 × 20	12.5 × 20	12.5 × 20	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
10000	16 × 31.5	18 × 35.5		
15000	18 × 35.5			


B41828
Standard series – 105 °C

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


Overview of available types – B43828

V_R (V DC)	160	200	250	350	400	450
	Case dimensions $d \times l$ (mm)					
C_R (μ F)						
0.47	5 × 11		6.3 × 11			
1.0	5 × 11	6.3 × 11	6.3 × 11	6.3 × 11	8 × 11.5	8 × 11.5
1.5						10 × 12.5
2.2	6.3 × 11	6.3 × 11	8 × 11.5	8 × 11.5	10 × 12.5	10 × 12.5
3.3	8 × 11.5	8 × 11.5	10 × 12.5	10 × 12.5	10 × 16	10 × 16
4.7	8 × 11.5	10 × 12.5	10 × 12.5	10 × 16	10 × 20	10 × 20
6.8						12.5 × 20
10	10 × 12.5	10 × 16	10 × 20	12.5 × 20	12.5 × 20	12.5 × 20
15						12.5 × 25
22	10 × 16	10 × 20	12.5 × 25	16 × 25	16 × 25	16 × 25
33	12.5 × 20	12.5 × 25	12.5 × 25	16 × 25	16 × 31.5	16 × 31.5
47	12.5 × 25	12.5 × 25	16 × 25	16 × 35.5	18 × 35.5	16 × 35.5 18 × 35.5
68						18 × 35.5
100	16 × 25	16 × 31.5	18 × 35.5			
220	18 × 35.5	18 × 40				


B41828
Standard series – 105 °C
Technical data and ordering codes – B41828

C_R 120 Hz, 20 °C μF	Case dimensions $d \times l$ mm	$I_{AC,R}$ 120 Hz, 105 °C mA	Ordering code (composition see below)
$V_R = 6.3 \text{ V DC}$			
47	5 × 11	66	B41828A2476M***
100	5 × 11	97	B41828A2107M***
220	6.3 × 11	162	B41828A2227M***
330	6.3 × 11	198	B41828A2337M***
470	8 × 11.5	259	B41828A2477M***
1000	10 × 12.5	454	B41828A2108M***
2200	12.5 × 20	793	B41828A2228M***
3300	12.5 × 20	939	B41828A2338M***
4700	16 × 25	1378	B41828A2478M***
10000	16 × 31.5	1852	B41828A2109M***
15000	18 × 35.5	2131	B41828A2159M***
$V_R = 10 \text{ V DC}$			
47	5 × 11	68	B41828A3476M***
100	5 × 11	106	B41828A3107M***
220	6.3 × 11	177	B41828A3227M***
330	8 × 11.5	236	B41828A3337M***
470	8 × 11.5	281	B41828A3477M***
1000	10 × 16	520	B41828A3108M***
2200	12.5 × 20	849	B41828A3228M***
3300	12.5 × 25	1118	B41828A3338M***
4700	16 × 25	1425	B41828A3478M***
10000	18 × 35.5	2004	B41828A3109M***

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 $\varnothing 16 \text{ mm}$, excluding $d \times l = 16 \times 35.5 \text{ mm}$)


Technical data and ordering codes – B41828

C_R 120 Hz, 20 °C μF	Case dimensions $d \times l$ mm	$I_{AC,R}$ 120 Hz, 105 °C mA	Ordering code (composition see below)
$V_R = 16 \text{ V DC}$			
10	5 × 11	35	B41828A4106M***
20	5 × 11	55	B41828A4226M***
33	5 × 11	66	B41828A4336M***
47	5 × 11	80	B41828A4476M***
100	6.3 × 11	129	B41828A4107M***
220	8 × 11.5	214	B41828A4227M***
330	8 × 11.5	266	B41828A4337M***
470	8 × 11.5	314	B41828A4477M***
1000	10 × 20	626	B41828A4108M***
2200	12.5 × 20	1028	B41828A4228M***
3300	16 × 25	1323	B41828A4338M***
4700	16 × 31.5	1661	B41828A4478M***
$V_R = 25 \text{ V DC}$			
10	5 × 11	37	B41828A5106M***
47	5 × 11	85	B41828A5476M***
100	6.3 × 11	143	B41828A5107M***
220	8 × 11.5	245	B41828A5227M***
330	10 × 12.5	319	B41828A5337M***
470	10 × 16	429	B41828A5477M***
1000	10 × 20	680	B41828A5108M***
2200	16 × 25	1233	B41828A5228M***
3300	16 × 31.5	1571	B41828A5338M***
4700	18 × 35.5	1925	B41828A5478M***

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 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 $\varnothing 16 \text{ mm}$, excluding $d \times l = 16 \times 35.5 \text{ mm}$)


B41828
Standard series – 105 °C
Technical data and ordering codes – B41828

C_R 120 Hz, 20 °C μF	Case dimensions $d \times l$ mm	$I_{AC,R}$ 120 Hz, 105 °C mA	Ordering code (composition see below)
$V_R = 35 \text{ V DC}$			
4.7	5 × 11	28	B41828A7475M***
10	5 × 11	42	B41828A7106M***
22	5 × 11	62	B41828A7226M***
33	5 × 11	76	B41828A7336M***
47	6.3 × 11	104	B41828A7476M***
100	6.3 × 11	169	B41828A7107M***
220	10 × 12.5	278	B41828A7227M***
330	10 × 16	395	B41828A7337M***
470	10 × 20	514	B41828A7477M***
1000	12.5 × 25	905	B41828A7108M***
2200	16 × 31.5	1403	B41828A7228M***
3300	18 × 35.5	1707	B41828A7338M***
$V_R = 50 \text{ V DC}$			
1.0	5 × 11	14	B41828A6105M***
10	5 × 11	48	B41828A6106M***
22	5 × 11	70	B41828A6226M***
33	6.3 × 11	101	B41828A6336M***
47	6.3 × 11	118	B41828A6476M***
100	8 × 11.5	193	B41828A6107M***
220	10 × 16	369	B41828A6227M***
330	10 × 20	458	B41828A6337M***
470	12.5 × 20	535	B41828A6477M***
1000	16 × 25	1085	B41828A6108M***
2200	18 × 35.5	1559	B41828A6228M***

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 $\varnothing 16 \text{ mm}$, excluding $d \times l = 16 \times 35.5 \text{ mm}$)


Technical data and ordering codes – B41828

C_R 120 Hz, 20 °C μF	Case dimensions $d \times l$ mm	$I_{AC,R}$ 120 Hz, 105 °C mA	Ordering code (composition see below)
$V_R = 63 \text{ V DC}$			
10	5 × 11	50	B41828A8106M***
22	6.3 × 11	79	B41828A8226M***
33	6.3 × 11	103	B41828A8336M***
47	8 × 11.5	135	B41828A8476M***
100	10 × 12.5	217	B41828A8107M***
220	12.5 × 20	374	B41828A8227M***
330	12.5 × 20	570	B41828A8337M***
470	12.5 × 25	715	B41828A8477M***
1000	16 × 31.5	1043	B41828A8108M***
$V_R = 100 \text{ V DC}$			
0.47	5 × 11	11	B41828A9474M***
1.0	5 × 11	17	B41828A9105M***
2.2	5 × 11	25	B41828A9225M***
3.3	5 × 11	31	B41828A9335M***
4.7	5 × 11	37	B41828A9475M***
10	6.3 × 11	55	B41828A9106M***
22	8 × 11.5	104	B41828A9226M***
33	10 × 12.5	145	B41828A9336M***
47	10 × 16	186	B41828A9476M***
100	12.5 × 20	296	B41828A9107M***
220	16 × 25	497	B41828A9227M***
330	16 × 25	609	B41828A9337M***
470	16 × 31.5	802	B41828A9477M***

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 $\varnothing 16 \text{ mm}$, excluding $d \times l = 16 \times 35.5 \text{ mm}$)


B43828
Standard series – 105 °C
Technical data and ordering codes – B43828

C_R 120 Hz, 20 °C μF	Case dimensions $d \times l$ mm	$I_{AC,R}$ 120 Hz, 105 °C mA	Ordering code (composition see below)
$V_R = 160 \text{ V DC}$			
0.47	5 × 11	12	B43828A1474M***
1.0	5 × 11	18	B43828A1105M***
2.2	6.3 × 11	26	B43828A1225M***
3.3	8 × 11.5	33	B43828A1335M***
4.7	8 × 11.5	38	B43828A1475M***
10	10 × 12.5	56	B43828A1106M***
22	10 × 16	111	B43828A1226M***
33	12.5 × 20	162	B43828A1336M***
47	12.5 × 25	218	B43828A1476M***
100	16 × 25	322	B43828A1107M***
220	18 × 35.5	604	B43828A1227M***
$V_R = 200 \text{ V DC}$			
1.0	6.3 × 11	18	B43828A2105M***
2.2	6.3 × 11	26	B43828A2225M***
3.3	8 × 11.5	33	B43828A2335M***
4.7	10 × 12.5	43	B43828A2475M***
10	10 × 16	73	B43828A2106M***
22	10 × 20	122	B43828A2226M***
33	12.5 × 25	178	B43828A2336M***
47	12.5 × 25	218	B43828A2476M***
100	16 × 31.5	376	B43828A2107M***
220	18 × 40	610	B43828A2227M***

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 $\varnothing 16 \text{ mm}$, excluding $d \times l = 16 \times 35.5 \text{ mm}$)


Technical data and ordering codes – B43828

C_R 120 Hz, 20 °C μF	Case dimensions $d \times l$ mm	$I_{AC,R}$ 120 Hz, 105 °C mA	Ordering code (composition see below)
$V_R = 250 \text{ V DC}$			
0.47	6.3 × 11	12	B43828F2474M***
1.0	6.3 × 11	18	B43828F2105M***
2.2	8 × 11.5	29	B43828F2225M***
3.3	10 × 12.5	36	B43828F2335M***
4.7	10 × 12.5	43	B43828F2475M***
10	10 × 20	82	B43828F2106M***
22	12.5 × 25	132	B43828F2226M***
33	12.5 × 25	178	B43828F2336M***
47	16 × 25	237	B43828F2476M***
100	18 × 35.5	410	B43828F2107M***
$V_R = 350 \text{ V DC}$			
1.0	6.3 × 11	18	B43828A4105M***
2.2	8 × 11.5	29	B43828A4225M***
3.3	10 × 12.5	36	B43828A4335M***
4.7	10 × 16	50	B43828A4475M***
10	12.5 × 20	89	B43828A4106M***
22	16 × 25	149	B43828A4226M***
33	16 × 25	196	B43828A4336M***
47	16 × 35.5	272	B43828A4476M***

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 $\varnothing 16 \text{ mm}$, excluding $d \times l = 16 \times 35.5 \text{ mm}$)


B43828
Standard series – 105 °C
Technical data and ordering codes – B43828

C_R 120 Hz, 20 °C μF	Case dimensions $d \times l$ mm	$I_{AC,R}$ 120 Hz, 105 °C mA	Ordering code (composition see below)
$V_R = 400 \text{ V DC}$			
1.0	8 × 11.5	18	B43828A9105M***
2.2	10 × 12.5	32	B43828A9225M***
3.3	10 × 16	42	B43828A9335M***
4.7	10 × 20	55	B43828A9475M***
10	12.5 × 20	89	B43828A9106M***
22	16 × 25	149	B43828A9226M***
33	16 × 31.5	217	B43828A9336M***
47	18 × 35.5	289	B43828A9476M***
$V_R = 450 \text{ V DC}$			
1.0	8 × 11.5	18	B43828A5105M***
1.5	10 × 12.5	26	B43828A5155M***
2.2	10 × 12.5	32	B43828A5225M***
3.3	10 × 16	42	B43828A5335M***
4.7	10 × 20	55	B43828A5475M***
6.8	12.5 × 20	73	B43828A5685M***
10	12.5 × 20	89	B43828A5106M***
15	12.5 × 25	120	B43828A5156M***
22	16 × 25	149	B43828A5226M***
33	16 × 31.5	217	B43828A5336M***
47	16 × 35.5	273	B43828B5476M***
47	18 × 35.5	289	B43828A5476M***
68	18 × 35.5	351	B43828A5686M***

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 $\varnothing 5 \dots 12.5 \text{ mm}$)

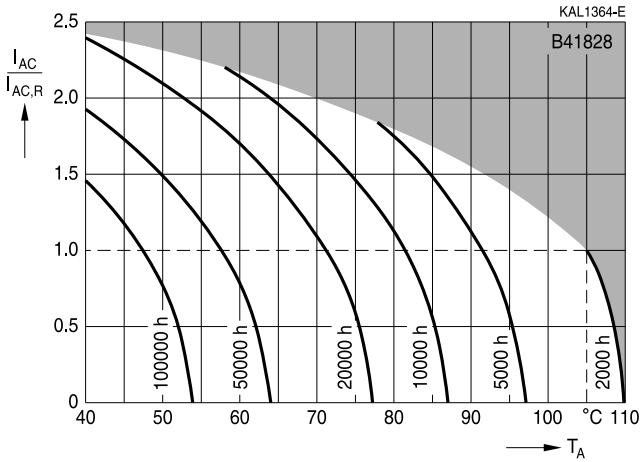
 009 = for taped leads, Ammo pack, lead spacing $F = 7.5 \text{ mm}$ (for $\varnothing 16 \text{ mm}$, excluding $d \times l = 16 \times 35.5 \text{ mm}$)



Useful life

depending on ambient temperature T_A under ripple current operating conditions¹⁾

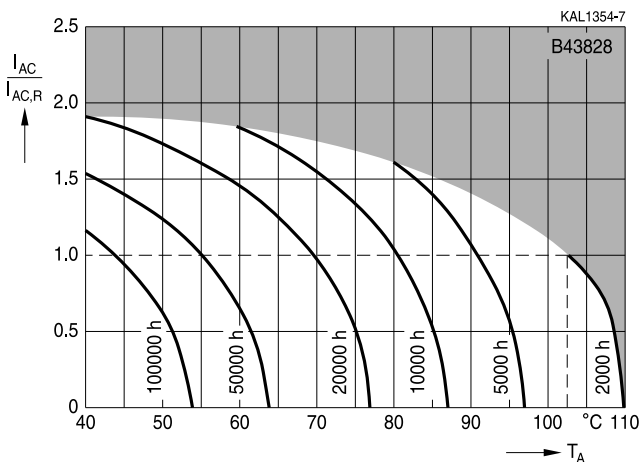
B41828



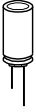
Useful life

depending on ambient temperature T_A under ripple current operating conditions¹⁾

B43828



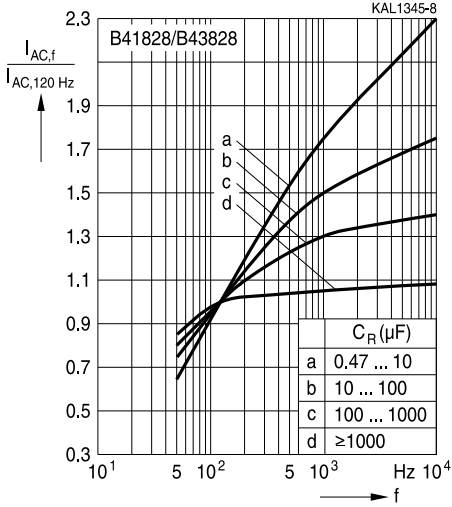
1) Refer to chapter "General technical information, 5.3 Calculation of useful life" for an explanation on how to interpret the useful life graphs.



B41828, B43828

Standard series – 105 °C

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





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)

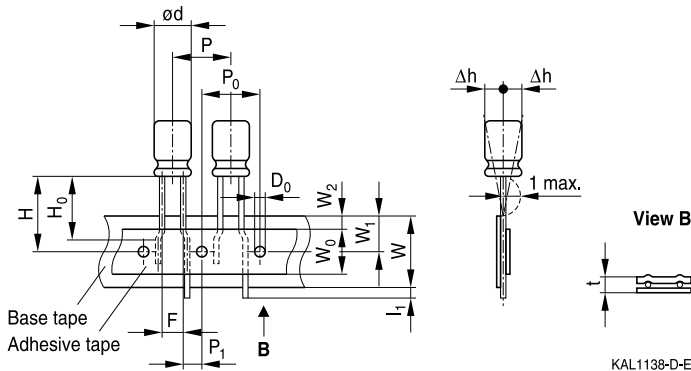
Lead spacing $F = 3.5$ mm ($\varnothing d = 8$ mm)

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

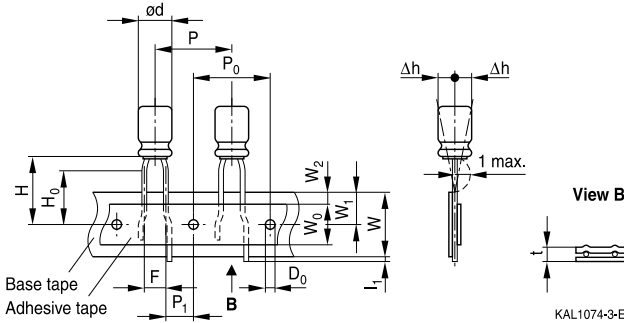


B41828, B43828

Standard series – 105 °C

Lead spacing 2.5 mm (∅ d = 4 ... 6.3 mm)

Last 3 digits of ordering code: 007

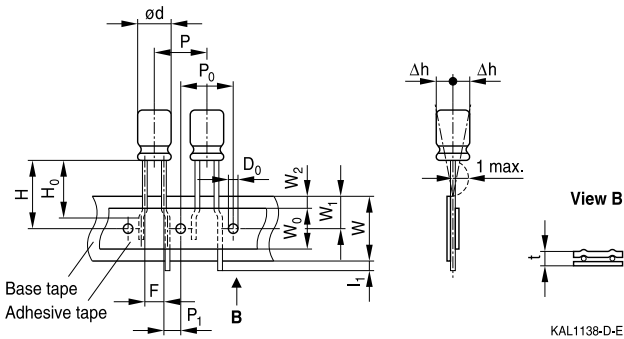


Dimensions in mm

∅ 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



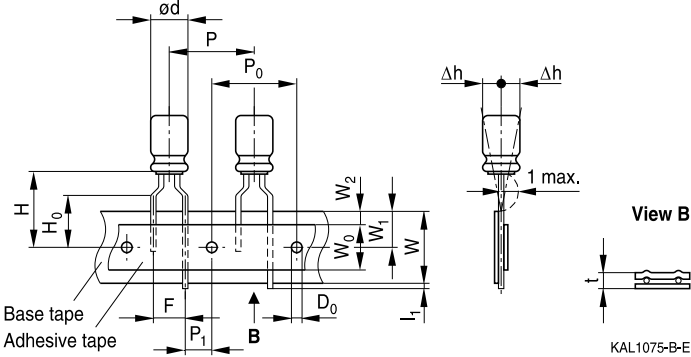
Dimensions in mm

∅ 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

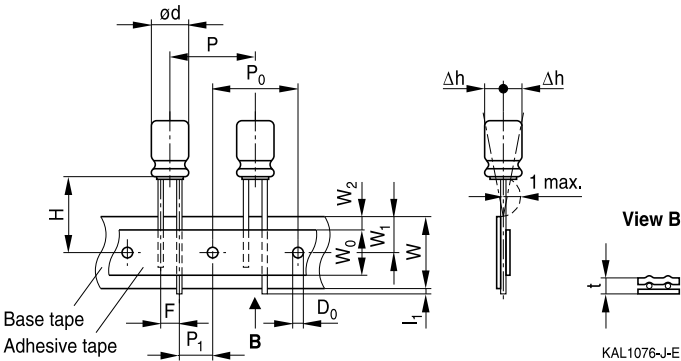
Leads can also run straight through the taping area. Taping is available up to dimensions $d \times l = 8 \times 15$ mm.


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)

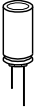
Last 3 digits of ordering code: 008


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 = 12.5 × 25 mm.

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

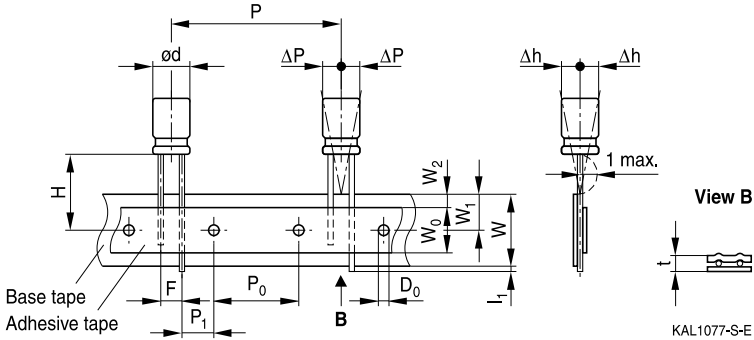


B41828, B43828

Standard series – 105 °C

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.



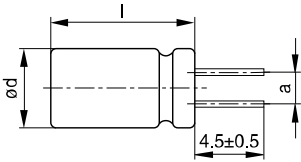
Cut or kinked leads

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.

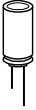
Last 3 digits of ordering code: 002



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



B41828, B43828

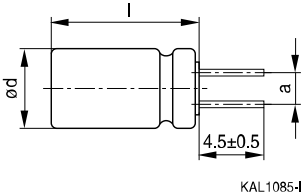
Standard series – 105 °C

Cut leads (Chapter B)

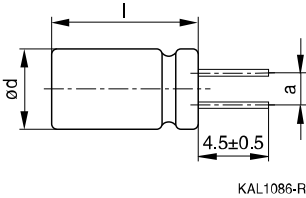
Available for series B41858, B41859, B41863, B41866, B41868, B41888, B41890, B41896, B42824, B42851, B43866, B43867, B43890, B43896.

Last 3 digits of ordering code: 002

With stand-off rubber seal



With flat rubber seal



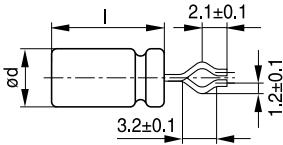
Case size d × l (mm)	Dimensions (mm) a ±0.5
10 × 12.5	5.0
10 × 16	5.0
10 × 20	5.0
12.5 × 20	5.0
12.5 × 25	5.0
16 × 20	7.5
16 × 25	7.5
16 × 31.5	7.5
16 × 35.5	7.5
18 × 20	7.5
18 × 25	7.5
18 × 31.5	7.5
18 × 35	7.5
18 × 40	7.5



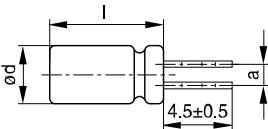
Kinked leads (Chapter A)

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

Last 3 digits of ordering code: 001



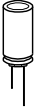
KAL1137-5



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



B41828, B43828

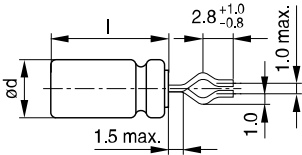
Standard series – 105 °C

Kinked leads (Chapter B)

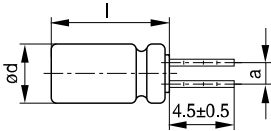
Available for series B41858, B41859, B41863, B41866, B41868, B41888, B41890, B41896, B42824, B42851, B43866, B43867, B43890, B43896.

Last 3 digits of ordering code: 001

With stand-off rubber seal

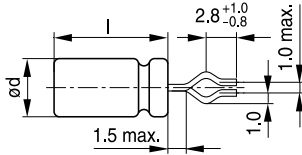


KAL1081-K

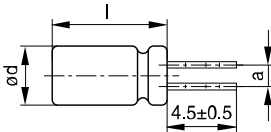


KAL1083-2

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



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.

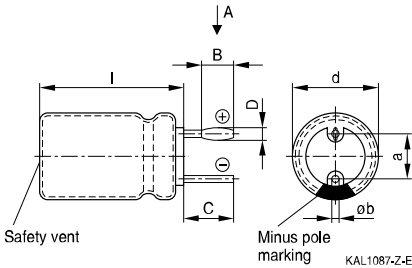
There are three configurations available: Crimped leads, J leads, bent 90° leads

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

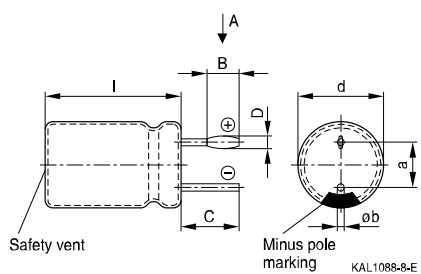
Crimped leads

Last 3 digits of ordering code: 003

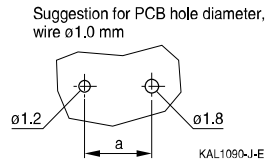
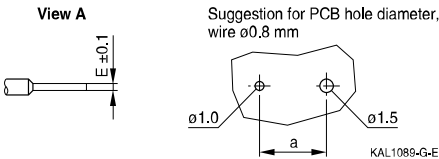
With stand-off rubber seal



With flat rubber seal



Suggestion for PCB hole diameter



Case size d × l (mm)	Dimensions (mm)					
	B ±0.2	C ±0.5	D ±0.1	E ±0.1	a ±0.5	∅b
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