

Aluminum electrolytic capacitors

Series/Type: B41041, B43041

The following products presented in this data sheet are being withdrawn.

Ordering Code	Date of Withdrawal	Deadline Last Orders	Last Shipments
B43041A5157M000	2011-06-24	2011-09-30	2011-12-30

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Single-ended capacitors Low impedance – 105 °C

Long-life grade capacitors

Applications

- For low impedance applications
- Semi-professional to professional application range
- For filtering, coupling and pulse circuits

Features

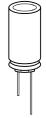
- Miniaturized dimensions
- RoHS-compatible
- Load life of 2000 hours at 105 °C

Construction

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

Delivery mode

- Bulk
- Taped, Ammo pack
- Cut
- Kinked





B41041, B43041



Low impedance – 105 °C

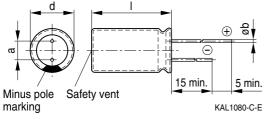
Specifications and characteristics in brief

Rated voltage V _R	6.3 450	VD	С									
Operating tempera- ture range	−40 °C	+105	°C									
Rated capacitance C_R (20 °C, 120 Hz)	0.1 150	00 μ	F									
Capacitance tolerance	$\pm 20\% \cong M$	l										
Load life (105 °C, V _R , I _{AC,R})	2000 h											
Leakage current I _{leak} (20 °C, after 5 minutes)	$I_{leak} \le 0.0$	3 µA	$\cdot \Big(\frac{C_R}{\mu F} \cdot$	$\frac{V_R}{V}$ or	3 µA	, whi	cheve	er is	greate	r		
Dissipation factor	For capaci	tance	higher	than 1	000 h	ιF ad	d 0.0	2 for	every	increa	ise of	f 1000 μF
$\tan \delta$	$V_R (V DC)$	6.3	10	16	25	35	50	63	. 100	160	. 250	315 450
(20 °C, 120 Hz)	tan δ	0.24		0.16	0.14	0.12	0.10	(0.09	0.1	15	0.20
Low temperature	V _R (V DC)		6.3	10	16	25	. 100		160	250	315	450
stability (impedance ratio) (120 Hz)	Z(-40 °C Z(+20 °C	<u>;)</u> ;)	7		5	4			8		6	
Shelf life	After stora ment of loa 30 minutes	ad life	e test a	fter refe	ormin	g pro	ocess	. Aft	er test:			
Frequency multiplier								F	reque	псу		
for rated ripple current	V _R		C _R		50 H	lz	120	Hz	1 kHz	10 k	Ηz	100 kHz
	6.3 100	V	0.1 6	6.8 μF	-		0.4		0.7	0.8		1.0
			10 6	8 μF	-		0.5		0.8	0.9		1.0
			100	200 μF	-		0.7		0.9	0.9		1.0
			330 1000 μ	,F	-		0.8		0.9	1.0		1.0
			2200 15000 j		-		0.9		1.0	1.0		1.0
	160 450) V	0.47	330	0.8		1		1.3	1.4		1.6
Temperature multi-			+70 °C	0	_	+85	°C			+105	5°C	
plier for rated ripple	6.3 100	V	2.0			1.7				1.0		
current	160 400) V	1.8			1.4				1.0		
-												



Low impedance – 105 °C

Dimensional drawing



Safety vent for diameter \ge 8 mm.

Case dimensions

d × I	$d_{max} \times I_{max}$	а	b
mm	mm	mm	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 × 14.0	5.0 ± 0.5	0.6 ±0.1
10 × 16	11 × 17.5	5.0 ±0.5	0.6 ±0.1
10 × 20	11 × 21.5	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 × 25	17 × 27.0	7.5 ±0.5	0.8 ±0.1
16 × 31.5	17 × 33.5	7.5 ± 0.5	0.8 ±0.1
16 × 35.5	17 × 37.5	7.5 ± 0.5	0.8 ±0.1
18 × 35.5	19 × 37.5	7.5 ± 0.5	0.8 ±0.1
18 × 40	19 × 42.0	7.5 ±0.5	0.8 ±0.1



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V _R (V DC)	6.3	10	16	25
	Case dimensions	d × I (mm)		
C _R (μF)				
4.7				5 × 11
6.8				5 × 11
10			5 × 11	5 × 11
15			5 × 11	5 × 11
22		5 × 11	5 × 11	5 × 11
33	5 × 11	5 × 11	5 × 11	5 × 11
47	5 × 11	5 × 11	5 × 11	5 × 11
68	5 × 11	5 × 11	6.3 × 11	6.3 × 11
100	5 × 11	5 × 11	6.3 × 11	6.3 × 11
150	6.3 × 11	6.3 × 11	8 × 11.5	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	12.5 × 20
1000	10 × 12.5	10 × 16	10 × 20	12.5 × 20
1500	10 × 20	10 × 20	12.5 imes 20	16 × 25
2200	12.5 × 20	12.5 × 20	12.5 imes 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	18 × 35.5		
15000	18 × 35.5			



Low impedance – 105 °C

V _R (V DC)	35	50	63	100
	Case dimensions	d × l (mm)		·
C _R (μF)				
0.10		5 × 11		
0.22		5 × 11		
0.33		5 × 11		
0.47		5 × 11		5 × 11
0.68		5 × 11		5 × 11
1.0		5 × 11		5 × 11
1.5		5 × 11		5 × 11
2.2		5 × 11		5 × 11
3.3		5 × 11		5 × 11
4.7	5 × 11	5 × 11	5 ×11	5 × 11
6.8	5 × 11	5 × 11	5 ×11	6.3 × 11
10	5 × 11	5 × 11	5 × 11	6.3 × 11
15	5 × 11	5 × 11	6.3 × 11	8 × 11.5
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
68	8 × 11.5	8 × 11.5	10 × 12.5	10 × 20
100	8 × 11.5	8 × 11.5	10 × 12.5	12.5 × 20
150	10 × 12.5	10 × 12.5	10 × 16	12.5 × 25
220	10 × 12.5	10 × 16	10 × 20	16 × 25
330	10 × 16	10 × 20	12.5 × 20	16 × 25
470	10 × 20	12.5 imes 20	12.5 imes 25	16 × 31.5
680	12.5 × 25	16 × 25	16 × 31.5	
1000	12.5 × 25	16 × 25	16 × 31.5	
1500	16 × 25	16 × 35.5		
2200	16 × 31.5	18 × 35.5		
3300	18 × 35.5			



Low impedance – 105 °C

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V _R (V DC)	160	200	250
	Case dimensions d ×	(mm)	
C _R (μF)			
2.2			6.3 × 11
3.3		6.3 × 11	8 × 11.5
4.7	6.3 × 11	8 × 11.5	8 × 11.5
6.8	8 × 11.5	8 × 11.5	10 × 12.5
10	8 × 11.5	10 × 12.5	10 × 16
15	10 × 12.5	10 × 16	10 × 20
22	10 × 16	10 × 20	12.5 × 20
33	10 × 20	12.5 × 20	12.5 × 20
47	12.5 × 20	12.5×25	12.5 × 25
68	12.5 × 25	12.5 × 25	16 × 25
82	12.5 imes 25	16 × 25	16 × 25
100	16 × 25	16 × 25	16 × 31.5
150	16 × 31.5	16 × 31.5	18 × 31.5
220	18 × 31.5	18 × 31.5	18 × 35.5
330	18 × 35.5	18 × 40	



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V _R (V DC)	350	400	450
	Case dimensions d >	<i (mm)<="" td=""><td></td></i>	
C _R (μF)			
0.47			6.3 × 11
0.68			6.3 × 11
1.0		6.3 × 11	8 × 11.5
1.5	6.3 × 11	8 × 11.5	8 × 11.5
2.2	8 × 11.5	8 × 11.5	8 × 11.5
3.3	8 × 11.5	8 × 11.5	10 × 12.5
4.7	10 × 12.5	10 × 12.5	10 × 16
6.8	10 × 12.5	10 × 16	10 × 20
10	10 × 16	10 × 20	12.5 × 20
15	10 × 20	12.5 × 20	12.5 × 25
22	12.5 × 20	12.5 × 25	12.5 × 25
33	12.5 × 25	16 × 25	16 × 25
47	16 × 25	16 × 25	16 × 31.5
68	16 × 31.5	16 × 31.5	18 × 31.5
82	18 × 31.5	18 × 31.5	18 × 35.5
100	18 × 35.5	18 × 35.5	18 ×40
150	18 × 40	18 × 40	18 × 45



Low impedance – 105 °C

Technical data and ordering codes B41041

V _R	C _R 120 Hz	Case	Z 100 kHz	I _{AC,R}	Ordering code
	120 HZ 20 °C	dimensions		100 kHz	(composition see
		d × l	20 °C	105 °C	below)
V DC	μF	mm	Ω	mA	
6.3	33	5 ×11	2.5	105	B41041A2336M***
	47	5 ×11	1.5	120	B41041A2476M***
	68	5 ×11	1.3	125	B41041A2686M***
	100	5 ×11	1.2	130	B41041A2107M***
	150	6.3 × 11	1.0	150	B41041A2157M***
	220	6.3 × 11	0.87	180	B41041A2227M***
	330	6.3 × 11	0.58	220	B41041A2337M***
	470	8 ×11.5	0.39	315	B41041A2477M***
	680	10 × 12.5	0.35	370	B41041A2687M***
	1000	10 × 12.5	0.23	500	B41041A2108M***
	1500	10 × 20	0.18	630	B41041A2158M***
	2200	12.5×20	0.095	1000	B41041A2228M***
	3300	12.5×20	0.090	1050	B41041A2338M***
	4700	16×25	0.061	1670	B41041A2478M***
	6800	16×25	0.056	1740	B41041A2688M***
	10000	16 × 31.5	0.045	2110	B41041A2109M***
	15000	18 × 35.5	0.036	2580	B41041A2159M***
10	22	5 × 11	2.5	92	B41041A3226M***
	33	5 ×11	1.9	105	B41041A3336M***
	47	5 ×11	1.5	120	B41041A3476M***
	68	5 ×11	1.4	125	B41041A3686M***
	100	5 ×11	1.2	130	B41041A3107M***
	150	6.3 × 11	0.8	160	B41041A3157M***
	220	6.3 × 11	0.58	220	B41041A3227M***
	330	8 × 11.5	0.47	265	B41041A3337M***
	470	8 × 11.5	0.39	315	B41041A3477M***
	680	10 × 12.5	0.30	400	B41041A3687M***
	1000	10 × 16	0.18	615	B41041A3108M***
	1500	10 × 20	0.15	810	B41041A3158M***
	2200	12.5 × 20	0.09	1050	B41041A3228M***
	3300	12.5×25	0.068	1300	B41041A3338M***
	4700	16 × 25	0.056	1740	B41041A3478M***
	6800	16 × 31.5	0.045	2110	B41041A3688M***
	10000	18 × 35.5	0.036	2580	B41041A3109M***

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

016 = for taped leads, Ammo pack, lead spacing a = 2.0 mm

007 =for taped leads, Ammo pack, lead spacing a = 2.5 mm

006 = for taped leads, Ammo pack, lead spacing a = 3.5 mm 008 = for taped leads, Ammo pack, lead spacing a = 5.0 mm



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Technical data and ordering codes B41041

V _R	C _R	Case	Z	I _{AC,R}	Ordering code
	120 Hz	dimensions	100 kHz	100 kHz	(composition see
	20 °C	d × I	20 °C	105 °C	below)
V DC	μF	mm	Ω	mA	
16	10	5 × 11	2.5	92	B41041A4106M***
	15	5 ×11	2.2	98	B41041A4156M***
	22	5 ×11	1.9	105	B41041A4226M***
	33	5 ×11	1.5	120	B41041A4336M***
	47	5 ×11	1.2	130	B41041A4476M***
	68	6.3 × 11	1	150	B41041A4686M***
	100	6.3 × 11	0.58	220	B41041A4107M***
	150	8 ×11.5	0.5	240	B41041A4157M***
	220	8 ×11.5	0.47	290	B41041A4227M***
	330	8 ×11.5	0.39	315	B41041A4337M***
	470	10 ×12.5	0.23	500	B41041A4477M***
	680	10 ×16	0.17	610	B41041A4687M***
	1000	10 ×20	0.12	825	B41041A4108M***
	1500	12.5 × 20	0.1	1000	B41041A4158M***
	2200	12.5×25	0.068	1300	B41041A4228M***
	3300	16 ×25	0.056	1740	B41041A4338M***
	4700	16 ×31.5	0.045	2110	B41041A4478M***
	6800	18 × 35.5	0.036	2580	B41041A4688M***
25		5 ×11	3	85	B41041A5475M***
	6.8	5 ×11	2.7	88	B41041A5685M***
	10	5 ×11	2.5	92	B41041A5106M***
	15	5 ×11	2.2	98	B41041A5156M***
	22	5 ×11	1.9	105	B41041A5226M***
	33	5 ×11	1.5	120	B41041A5336M***
	47	5 ×11	1.2	130	B41041A5476M***
	68	6.3 × 11	0.8	150	B41041A5686M***
	100	6.3 × 11	0.58	220	B41041A5107M***
	150	8 ×11.5	0.5	260	B41041A5157M***
	220	8 ×11.5	0.39	315	B41041A5227M***
	330	10 ×12.5	0.23	500	B41041A5337M***
	470	10 ×16	0.18	615	B41041A5477M***
	680	12.5 × 20	0.14	830	B41041A5687M***
	1000	12.5 × 20	0.09	1050	B41041A5108M***
	1500	16 × 25	0.08	1200	B41041A5158M***
	2200	16 × 25	0.056	1740	B41041A5228M***
	3300	16 × 31.5	0.045	2110	B41041A5338M***
	4700	18 × 35.5	0.036	2580	B41041A5478M***

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007 = for taped leads, Ammo pack, lead spacing a = 2.5 mm

006 = for taped leads, Ammo pack, lead spacing a = 3.5 mm 008 = for taped leads, Ammo pack, lead spacing a = 5.0 mm

000 – 101 lapeu leaus, Amino pack, leau spacing a – 5.0 min



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Technical data and ordering codes B41041

V _R	C _R 120 Hz	Case dimensions	Z 100 kHz	I _{AC,R} 100 kHz	Ordering code (composition see
	20 °C	d × l	20 °C	105 °C	below)
V DC	μF	mm	Ω	mA	· · · · ,
35	4.7	5 ×11	2.5	92	B41041A7475M***
	6.8	5 ×11	2.2	98	B41041A7685M***
	10	5 ×11	1.9	105	B41041A7106M***
	15	5 ×11	1.7	110	B41041A7156M***
	22	5 ×11	1.5	120	B41041A7226M***
	33	5 ×11	1.5	130	B41041A7336M***
	47	6.3 × 11	0.72	220	B41041A7476M***
	68	8 ×11.5	0.5	240	B41041A7686M***
	100	8 ×11.5	0.39	315	B41041A7107M***
	150	10 × 12.5	0.3	370	B41041A7157M***
	220	10 × 12.5	0.23	500	B41041A7227M***
	330	10 ×16	0.18	615	B41041A7337M***
	470	10 ×20	0.12	825	B41041A7477M***
	680	12.5 × 25	0.1	1000	B41041A7687M***
	1000	12.5 × 25	0.068	1300	B41041A7108M***
	1500	16 ×25	0.06	1500	B41041A7158M***
	2200	16 ×31.5	0.045	2110	B41041A7228M***
	3300	18 ×35.5	0.036	2580	B41041A7338M***
50	0.1	5 ×11	18	10	B41041A6104M***
	0.22	5 ×11	13	15	B41041A6224M***
	0.33	5 ×11	10	18	B41041A6334M***
	0.47	5 ×11	7	23	B41041A6474M***
	0.68	5 ×11	6	25	B41041A6684M***
	1	5 ×11	4.9	35	B41041A6105M***
	1.5	5 ×11	4.6	40	B41041A6155M***
	2.2	5 ×11	4.2	53	B41041A6225M***
	3.3	5 ×11	3.9	65	B41041A6335M***
	4.7	5 ×11	3.6	82	B41041A6475M***
	6.8	5 ×11	3.2	90	B41041A6685M***
	10	5 ×11	2.7	100	B41041A6106M***
	15	5 ×11	2.2	110	B41041A6156M***
	22	5 ×11	1.9	125	B41041A6226M***
	33	6.3 × 11	1.1	195	B41041A6336M***
	47	6.3 × 11	0.9	245	B41041A6476M***
	68	8 ×11.5	0.7	310	B41041A6686M***

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008 = for taped leads, Ammo pack, lead spacing a = 5.0 mm

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

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Technical data and ordering codes B41041

V _R V DC	C _R 120 Hz 20 °C μF	Case dimensions d × I mm	Z 100 kHz 20 °C Ω	I _{AC,R} 100 kHz 105 °C mA	Ordering code (composition see below)
50	100 150 220 330 470 680 1000 1500 2200	$\begin{array}{c} 8 & \times 11.5 \\ 10 & \times 12.5 \\ 10 & \times 16 \\ 10 & \times 20 \\ 12.5 & \times 20 \\ 16 & \times 25 \\ 16 & \times 25 \\ 16 & \times 35.5 \\ 18 & \times 35.5 \end{array}$	0.5 0.45 0.27 0.18 0.12 0.1 0.076 0.068 0.05	385 450 505 675 895 1100 1495 1800 2190	B41041A6107M*** B41041A6157M*** B41041A6227M*** B41041A6337M*** B41041A6477M*** B41041A6687M*** B41041A6108M*** B41041A6158M*** B41041A6228M***
63	4.7 6.8 10 15 22 33 47 68 100 150 220 330 470 680 1000	$\begin{array}{c} 5 & \times 11 \\ 5 & \times 11 \\ 5 & \times 11 \\ 6.3 \times 11 \\ 6.3 \times 11 \\ 6.3 \times 11 \\ 8 & \times 11.5 \\ 10 & \times 12.5 \\ 10 & \times 12.5 \\ 10 & \times 16 \\ 10 & \times 20 \\ 12.5 \times 20 \\ 12.5 \times 25 \\ 16 & \times 31.5 \\ 16 & \times 31.5 \end{array}$	5.8 4.5 3.6 2.8 2.1 1.7 1.2 0.9 0.65 0.46 0.32 0.22 0.16 0.12 0.098	74 80 95 110 130 160 305 350 395 460 505 660 850 1000 1430	B41041A8475M*** B41041A8685M*** B41041A8106M*** B41041A8156M*** B41041A8226M*** B41041A8336M*** B41041A8476M*** B41041A8686M*** B41041A8157M*** B41041A8337M*** B41041A8337M*** B41041A8687M*** B41041A8687M*** B41041A8108M***
100	0.47 0.68 1 1.5 2.2 3.3 4.7 6.8 10 15 22	$\begin{array}{c} 5 & \times 11 \\ 6.3 \times 11 \\ 6.3 \times 11 \\ 8 & \times 11.5 \\ 8 & \times 11.5 \end{array}$	13 12 11 10 9.2 7.2 6.3 4.5 3.3 2.8 1.4	30 35 45 50 60 67 75 88 110 130 165	B41041A9474M*** B41041A9684M*** B41041A9105M*** B41041A9155M*** B41041A9255M*** B41041A9335M*** B41041A9335M*** B41041A9475M*** B41041A9106M*** B41041A9156M*** B41041A9226M***

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006 = for taped leads, Ammo pack, lead spacing a = 3.5 mm

008 = for taped leads, Ammo pack, lead spacing a = 5.0 mm



Low impedance – 105 °C

C_R V_R Case Ζ Ordering code I_{AC R} 100 kHz 100 kHz 120 Hz dimensions (composition see 20 °C d × I 20 °C 105 °C below) V DC μF mΑ mm Ω 100 33 10 × 12.5 0.94 305 B41041A9336M*** 47 10×16 0.68 320 B41041A9476M*** 68 10×20 04 410 B41041A9686M*** 100 12.5×20 0.28 585 B41041A9107M*** 150 12.5×25 0.22 670 B41041A9157M*** 220 16×25 0 16 1120 B41041A9227M*** 330 16 ×25 0.13 1290 B41041A9337M*** 470 16 × 31.5 0.11 1350 B41041A9477M***

Technical data and ordering codes B41041

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Low impedance – 105 °C

Technical data and ordering codes B43041

V _R	C _R 120 Hz	Case dimensions	I _{AC,R} 100 kHz	Ordering code (composition see
	20 °C	d × l	100 KHZ 105 °C	· ·
	20 C μF	-		below)
V DC	μF	mm	mA	
160	4.7	6.3 × 11	34	B43041A1475M***
	6.8	8 ×11.5	46	B43041A1685M***
	10	8 ×11.5	56	B43041A1106M***
	15	10 × 12.5	80	B43041A1156M***
	22	10 ×16	110	B43041A1226M***
	33	10 ×20	150	B43041A1336M***
	47	12.5 × 20	200	B43041A1476M***
	68	12.5 × 25	270	B43041A1686M***
	82	12.5×25	295	B43041A1826M***
	100	16 ×25	370	B43041A1107M***
	150	16 ×31.5	508	B43041A1157M***
	220	18 ×31.5	650	B43041A1227M***
	330	18 ×35.5	850	B43041A1337M***
200	3.3	6.3 × 11	30	B43041A2335M***
	4.7	8 ×11.5	43	B43041A2475M***
	6.8	8 × 11.5	57	B43041A2685M***
	10	10 × 12.5	81	B43041A2106M***
	15	10 × 16	112	B43041A2156M***
	22	10 ×20	145	B43041A2226M***
	33	12.5 × 20	182	B43041A2336M***
	47	12.5×25	240	B43041A2476M***
	68	12.5×25	350	B43041A2686M***
	82	16 ×25	400	B43041A2826M***
	100	16 × 25	460	B43041A2107M***
	150	16 × 31.5	620	B43041A2157M***
	220	18 × 31.5	810	B43041A2227M***
	330	18 ×40	1010	B43041A2337M***
250	2.2	6.3 × 11	27	B43041F2225M***
	3.3	8 ×11.5	32	B43041F2335M***
	4.7	8 ×11.5	46	B43041F2475M***
	6.8	10 × 12.5	64	B43041F2685M***
	10	10 × 16	88	B43041F2106M***
	15	10 ×20	120	B43041F2156M***
	22	12.5 × 20	160	B43041F2226M***
	33	12.5 × 20	190	B43041F2336M***

*** = Version

000 = for standard leads, bulk

001 = for kinked leads, bulk

002 = for cut leads, bulk

016 = for taped leads, Ammo pack, lead spacing a = 2.0 mm

007 = for taped leads, Ammo pack, lead spacing a = 2.5 mm

006 = for taped leads, Ammo pack, lead spacing a = 3.5 mm

008 = for taped leads, Ammo pack, lead spacing a = 5.0 mm



Low impedance – 105 °C

Technical data and ordering codes B43041

V _R	C _R	Case	I _{AC,R}	Ordering code
	120 Hz	dimensions	100 kHz	(composition see
	20 °C	d × l	105 °C	below)
V DC	μF	mm	mA	
250	47	12.5 × 25	270	B43041F2476M***
	68	16 × 25	350	B43041F2686M***
	82	16 × 25	400	B43041F2826M***
	100	16 × 31.5	460	B43041F2107M***
	150	18 ×31.5	620	B43041F2157M***
	220	18 ×35.5	830	B43041F2227M***
350	1.5	6.3 × 11	19	B43041A4155M***
	2.2	8 ×11.5	30	B43041A4225M***
	3.3	8 ×11.5	34	B43041A4335M***
	4.7	10 × 12.5	50	B43041A4475M***
	6.8	10 × 12.5	70	B43041A4685M***
	10	10 × 16	92	B43041A4106M***
	15	10 × 20	130	B43041A4156M***
	22	12.5 × 20	165	B43041A4226M***
	33	12.5×25	220	B43041A4336M***
	47	16 × 25	290	B43041A4476M***
	68	16 × 31.5	380	B43041A4686M***
	82	18 × 31.5	480	B43041A4826M***
	100	18 × 35.5	520	B43041A4107M***
	150	18 ×40	650	B43041A4157M***
400	1	6.3 × 11	19	B43041A9105M***
	1.5	8 ×11.5	26	B43041A9155M***
	2.2	8 ×11.5	32	B43041A9225M***
	3.3	8 ×11.5	40	B43041A9335M***
	4.7	10 × 12.5	56	B43041A9475M***
	6.8	10 × 16	77	B43041A9685M***
	10	10 × 20	104	B43041A9106M***
	15	12.5 × 20	143	B43041A9156M***
	22	12.5 × 25	210	B43041A9226M***
	33	16 ×25	280	B43041A9336M***
	47	16 ×25	370	B43041A9476M***
	68	16 × 31.5	480	B43041A9686M***
	82	18 ×31.5	500	B43041A9826M***
	100	18 ×35.5	580	B43041A9107M***
	150	18 ×40	770	B43041A9157M***

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007 = for taped leads, Ammo pack, lead spacing a = 2.5 mm

006 = for taped leads, Ammo pack, lead spacing a = 3.5 mm

008 = for taped leads, Ammo pack, lead spacing a = 5.0 mm



Low impedance – 105 °C

V _R	C _R 120 Hz 20 °C	Case dimensions d × l	I _{AC,R} 100 kHz 105 °C	Ordering code (composition see
V DC	μF	mm	mA	below)
450	0.47	6.3 × 11	13	B43041A5474M***
100	0.68	6.3 × 11	16	B43041A5684M***
	1.0	8 × 11.5	23	B43041A5105M***
	1.5	8 × 11.5	28	B43041A5155M***
	2.2	8 × 11.5	34	B43041A5225M***
	3.3	10 × 12.5	49	B43041A5335M***
	4.7	10 × 16	65	B43041A5475M***
	6.8	10 ×20	90	B43041A5685M***
	10	12.5 × 20	125	B43041A5106M***
	15	12.5 × 25	170	B43041A5156M***
	22	12.5 × 25	210	B43041A5226M***
	33	16 × 25	280	B43041A5336M***
	47	16 × 31.5	380	B43041A5476M***
	68	18 × 31.5	480	B43041A5686M***
	82	18 × 35.5	550	B43041A5826M***
	100	18 ×40	650	B43041A5107M***
	150	18 ×45	800	B43041A5157M***

Technical data and ordering codes B43041

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002 = for cut leads, bulk

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007 = for taped leads, Ammo pack, lead spacing a = 2.5 mm

006 = for taped leads, Ammo pack, lead spacing a = 3.5 mm 008 = for taped leads, Ammo pack, lead spacing a = 5.0 mm



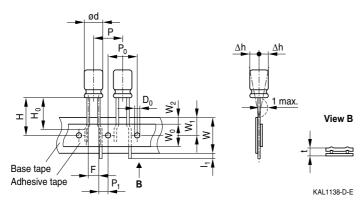
Single-ended capacitors Taping, packing and lead configurations

Taping, packing and lead configurations of single-ended capacitors

Single-ended capacitors are available taped in Ammo pack from diameter 4 to 10 mm as follows:

Lead spacing 2.0 mm (\emptyset d = 4 ... 5 mm)

Last 3 digits of ordering code: 016



Dimensions in mm

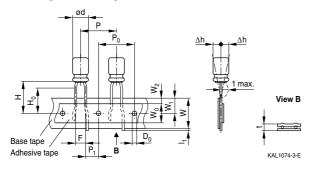
Ød	F	Н	W	W_0	W ₁	W_2	Ρ	P ₀	P ₁	l ₁	t	Δh	D ₀
4 5	2.0	18.5	18.0	7.0	9.0	3.0	12.7	12.7	5.10	1.0	0.7	1	4.0
	-0.2	±0.75	±0.5	min.	±0.5	max.	±1.0	±0.3	±0.7	max.	±0.2	±1.0	±0.2



Taping, packing and lead configurations

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

Last 3 digits of ordering code: 007

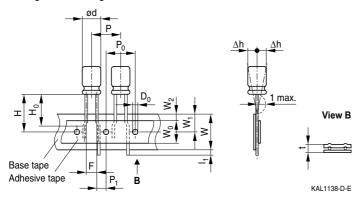


Dimensions in mm

Ø d	F	Н	H ₀	W	W_0	W_1	W_2	Ρ	P ₀	P ₁	l ₁	t	Δh	D ₀
4 6.3	2.5	18.5	16.0	18.0	7.0	9.0	3.0	12.7	12.7	5.10	1.0	0.7	0	4.0
Tolerance	-0.2	±0.75	±0.5	±0.5	min.	±0.5	max.	± 1.0	±0.3	±0.7	max.	± 0.2	± 1.0	±0.2

Lead spacing 3.5 mm (Ø d = 8 mm)

Last 3 digits of ordering code: 006



Dimensions in mm

Ød	F	Н	W	W ₀	W_1	W_2	Ρ	P ₀	P ₁	I ₁	t	Δh	D ₀
8	3.5	18.5	18.0	10	9.0	3.0	12.7	12.7	5.10	1.0	0.7	1	4.0
Tolerance	±0.5	±0.75	± 0.5	min.	±0.5	max.	±1.0	±0.3	±0.7	max.	±0.2	max.	±0.2

B41041, B43041

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

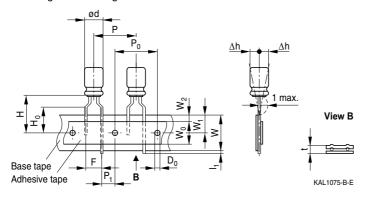
18 08/08



Taping, packing and lead configurations

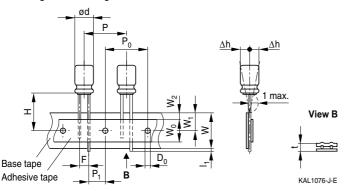
Lead spacing 5.0 mm (\emptyset d = 4 ... 8 mm)

Last 3 digits of ordering code: 008



Lead spacing 5.0 mm (\emptyset d = 10 mm)

Last 3 digits of ordering code: 008



Dimensions in mm

Ød	F	Н	H ₀	W	W ₀	W_1	W_2	Р	P ₀	P ₁	L ₁	t	Δh	D ₀
4 6.3	5.0	18.5	16	18.0	7.0	9.0	3.0	12.7	12.7	3.85	1.0	0.6	2.0	4.0
8	5.0	18.5	16	18.0	10	9.0	3.0	12.7	12.7	3.85	1.0	0.6	2.0	4.0
10	5.0	18.5	-	18.0	12.5	9.0	3.0	12.7	12.7	3.85	1.0	0.6	2.0	4.0
Tolerance	+0.6	±0.75	± 0.5	+1.0	+1.0	±0.5	max.	± 0.5	± 0.3	±0.7	max.	+0.3	max.	±0.2
	-0.2			-0.5	-0							-0.2		

Taping is available up to dimensions d \times I = 10 \times 20 mm. For \oslash 12.5, 16 and 18 mm taping is not available.



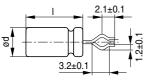
Single-ended capacitors Taping, packing and lead configurations

Kinked or cut leads

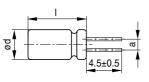
Single-ended capacitors are available with kinked or cut leads. Other lead configurations also available on request.

Kinked leads

Last 3 digits of ordering code: 001







KAL1084-A

Case size $d \times I$ (mm)	a (mm)
4 × 7	1.5
5 × 7	2.0
5 × 11	2.0
6.3×7	2.5
6.3 × 11	2.5
6.3×15	2.5
8×7	3.5
8 × 11.5	3.5
8×15	3.5
8×20	3.5
10 × 12.5	5.0
10 × 16	5.0
10 × 20	5.0
10 × 25	5.0
10 × 31.5	5.0

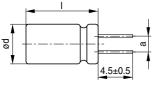
Case size $d \times I (mm)$	a (mm)
12.5 × 16	5.0
12.5 × 20	5.0
12.5 × 25	5.0
12.5 × 31.5	5.0
12.5 × 35.5	5.0
12.5 × 40	5.0
16 × 20	7.5
16 × 25	7.5
16 × 31.5	7.5
16 imes 35.5	7.5
16 × 40	7.5
18×20	7.5
18 × 25	7.5
18×31.5	7.5
18 × 35.5	7.5
18×40	7.5

B41041, B43041



Single-ended capacitors Taping, packing and lead configurations

Last 3 digits of ordering code: 002



KAL1086-R

Case size $d \times I (mm)$	a (mm)
4×7	1.5
5×7	2.0
5 × 11	2.0
6.3×7	2.5
6.3 × 11	2.5
6.3 × 15	2.5
8×7	3.5
8 × 11.5	3.5
8×15	3.5
8×20	5.0
10 × 12.5	5.0
10 × 16	5.0
10 × 20	5.0
10 × 25	5.0
10 × 31.5	5.0

Case size d \times l (mm)	a (mm)
12.5 × 16	5.0
12.5 × 20	5.0
12.5 × 25	5.0
12.5 × 31.5	5.0
12.5 × 35.5	5.0
12.5 × 40	5.0
16×20	7.5
16 × 25	7.5
16×31.5	7.5
16 × 35.5	7.5
16 × 40	7.5
18×20	7.5
18 × 25	7.5
18 × 31.5	7.5
18 × 35.5	7.5
18×40	7.5



Cautions and warnings

General

Also see "Important notes" on page 24.

- Aluminum electrolytic capacitors have a bi-polar structure. This is marked on the body of the capacitor. A capacitor must not be mounted with reversed polarity. The application of an AC or reverse voltage may cause a short circuit or damage the capacitor. Bi-polar capacitors must not be used in AC applications, where the polarity may be reversed in the circuits or is unknown.
- 2 The DC voltage applied to the capacitor terminal must not exceed its rated operating voltage, as this will result in a rapid increase of the leakage current and may damage the capacitor. It is recommended to operate the capacitor at 70–80% of its rated voltage to optimize its service life.
- 3 The ripple current applied to the capacitor must be within the permitted range. An excessive ripple current leads to impaired electrical properties and may damage the capacitor. Note that the sum of the peak values of the ripple voltage and the DC operating voltage must not exceed the rated DC voltage.
- 4 Capacitors must be used within their permitted range of operating temperature. Operation at room temperature optimizes their service life.
- 5 Capacitors with case diameter ≥8 mm are equipped with a safety vent. In capacitors fitted with a lead or soldering lug, the safety vent is usually located at the base of the case. It needs sufficient space around it to operate optimally. The following dimensions are recommended: for case diameter d = 8 to 16 mm, more than 2 mm; for d = 18 to 35 mm, more than 3 mm; and for d = 42 mm or more, more than 5 mm.
- 6 Capacitors should not be mounted with the safety vent face down on the board. Do not locate any wire or copper trace near the safety vent. Do not reverse the voltage, as this may result in excess pressure and the leakage of electrolyte.
- 7 Gas is released through the safety vent when the pressure inside the capacitor is too high. A gaseous liquid around the safety vent does not indicate a leakage of electrolyte.
- 8 The capacitor should be stored under conditions of normal temperature and in a non-acid, non-alkali environment of normal humidity. Exposure to high temperatures, for example under direct sunlight, will reduce its operating life. If the capacitor is stored in an environment containing acids or alkalis, the solderability of the leads may be affected.
- 9 The leakage current of an aluminum electrolytic capacitor may increase after a long period of storage. After such storage, the capacitor must be aged by applying the rated operating voltage for 6–8 hours before use.
- 10 Manual soldering:
 - a Soldering must be performed within the specified conditions. Bit temperature: 350 °C; application time of soldering iron: 3 seconds.
 - b Ensure that the soldering iron does not touch any part of the capacitor body.



Cautions and warnings

- 11 Do not apply excessive force to the leads and terminals. Do not move the capacitor after soldering it onto the PC board and do not carry the PC board by gripping the capacitor. Observe the following rules to prevent undue stress to the capacitor:
 - a Do not tilt or bend the capacitor after soldering.
 - b Ensure that the terminal spacing matches the corresponding hole spacing on the PC board.
- 12 The aluminum case is not insulated from the cathode. Do not place a conductor under the aluminum capacitors on the PC board as this may cause a short circuit. The case and top of capacitors used in switched mode power supplies have a high-voltage-resistant heat shrink sleeve to ensure safe usage.
- 13 The leads of capacitors with a case diameter exceeding 14 mm cannot be used for fixing.



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