

General-purpose grade capacitors

Applications

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

Features

- Miniaturized dimensions
- High CV product, i.e. very compact
- Good electrical characteristics

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

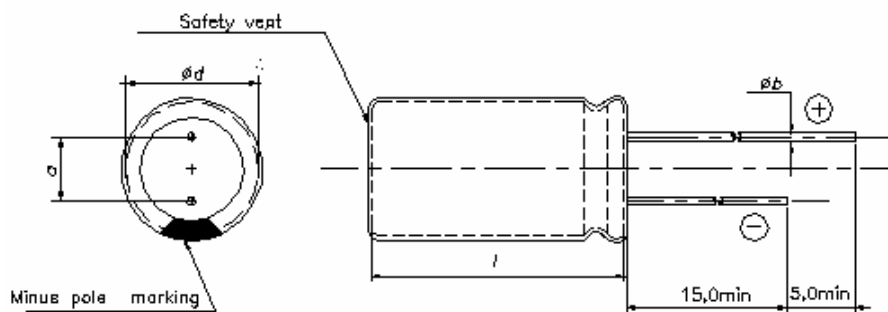
Special terminals configurations and packing

- Taped, Ammo pack

Specifications and characteristics in brief

Type	B41827	B43827
Rated voltage U_R	16 ... 100 VDC	160 ... 450 VDC
Surge voltage U_S	1,15 · U_R	1,1 · U_R
Rated capacitance C_R	0,47 ... 470 μ F	0.47 ... 10 μ F
Capacitance tolerance	± 20 % (M)	± 20 % (M)
Voltage endurance test 85°C ; U_R	2 000 h	
Post test requirements:	$\Delta C/C \leq \pm 30$ % of initial value $\tan \delta \leq 2$ times initial specified value $I_{leak} \leq$ initial specified limit	
Vibration resistance	To IEC 60068-2, test Fc: displacement amplitude 0,75 mm, frequency range 10 ... 2000 Hz, acceleration max. 10 g, duration 3 x 2 h	
IEC climatic category	To IEC 60068-1: 40/085/56 (-40 °C/ +85 °C/ 56 days damp heat test)	
Sectional specification	IEC 60384-4	

Dimensions



- Notes: 1- Safety vent from diameter $\phi d \geq 8$ mm
2- Flat rubber seal
3- Terminal Lead free

Dimensions (mm)			
$\phi d \times l$	$d_{\max} \times l_{\max}$	$a \pm 0.5$	b
5 x 11	5.5 x 12.5	2.0	0.50 ± 0.1
6.3 x 11	6.8 x 12.5	2.5	0.50 ± 0.1
8 x 11.5	8.5 x 13.0	3.5	0.60 ± 0.1

INDIVIDUAL TECHNICAL DATA

U_R	C_R	Case Dimensions	$I_{\text{leak max}}$	$\tan \delta_{\max}$	$I_{\sim R}$	Ordering code (composition see below)
VDC	120 Hz 20 °C μF	$\phi d \times l$ mm	5 min 20 °C μA	120 Hz 20 °C	120 Hz 85 °C mA (rms)	
B41827						
6.3	220	5 x 11	13.9	0.26	200	B41827A2227M***
	470	6.3 x 11	29.6	0.26	321	B41827A2477M***
10	330	6.3 x 11	33.0	0.22	290	B41827A3337M***
	470	8 x 11.5	47.0	0.22	385	B41827A3477M***
16	100	5 x 11	16.0	0.18	160	B41827A4107M***
	220	6.3 x 11	35.2	0.18	261	B41827A4227M***
	330	8 x 11.5	52.8	0.18	373	B41827A4337M***
	470	8 x 11.5	75.2	0.18	446	B41827A4477M***
25	47	5 x 11	11.8	0.16	108	B41827A5476M***
	100	5 x 11	25.0	0.16	180	B41827F5107M***
	100	6.3 x 11	25.0	0.16	192	B41827A5107M***
	220	8 x 11.5	55.0	0.16	335	B41827A5227M***

Composition of ordering code

*** = Version

000 = for standard leads, bulk (for 8x11,5 mm)

007 = for taped leads, Ammo-pack, lead spacing $F = 2.5\text{mm}$ (for 5x11 and 6,3x11 mm)

008 = for taped leads, Ammo-pack, lead spacing $F = 5.0\text{mm}$

Single Ended – Capacitors

B41827

Standard Series – 85°C

B43827

U_R	C_R	Case Dimensions	$I_{leak\ max}$	$\tan\delta_{max}$	$I_{\sim R}$	Ordering code (composition see below)
VDC	120 Hz 20 °C μF	φd x l mm	5 min 20 °C μA	120 Hz 20 °C	120 Hz 85°C mA (rms)	
B41827						
35	47	5 x 11	16.5	0.14	130	B41827A7476M***
	100	6.3 x 11	35.0	0.14	212	B41827A7107M***
50	10	5 x 11	5.0	0.12	58	B41827A6106M***
	22	5 x 11	11.0	0.12	85	B41827A6226M***
	33	5 x 11	16.5	0.12	117	B41827A6336M***
	47	6.3 x 11	23.5	0.12	155	B41827A6476M***
	100	8 x 11.5	50.0	0.12	260	B41827A6107M***
63	10	5 x 11	6.3	0.10	60	B41827A8106M***
	22	6.3 x 11	13.9	0.10	100	B41827A8226M***
	33	6.3 x 11	20.8	0.10	140	B41827A8336M***
	47	6.3 x 11	29.6	0.10	170	B41827A8476M***
100	0.47	5 x 11	3.0	0.08	13	B41827A9474M***
	1.0	5 x 11	3.0	0.08	20	B41827A9105M***
	2.2	5 x 11	3.0	0.08	29	B41827A9225M***
	3.3	5 x 11	3.3	0.08	36	B41827A9335M***
	4.7	5 x 11	4.7	0.08	43	B41827A9475M***
	10	6.3 x 11	10.0	0.08	75	B41827A9106M***
	22	8 x 11.5	22.0	0.08	130	B41827A9226M***
B43827						
160	2.2	5 x 11	20.6	0.19	33	B43827A1225M***
	4.7	6.3 x 11	32.6	0.19	49	B43827A1475M***
	10	8 x 11.5	58.0	0.19	80	B43827A1106M***
200	3.3	6.3 x 11	29.8	0.19	40	B43827A2335M***
250	0.47	5 x 11	13.5	0.19	15	B43827F2474M***
	1.0	5 x 11	17.5	0.19	22	B43827F2105M***
	2.2	6.3 x 11	26.5	0.19	33	B43827F2225M***
	3.3	6.3 x 11	34.8	0.19	47	B43827F2335M***
	4.7	8 x 11.5	45.3	0.19	56	B43827F2475M***
400	0.47	6.3 x 11	15.6	0.24	15	B43827A9474M***
	1.0	6.3 x 11	22.0	0.24	23	B43827A9105M***
	2.2	8 x 11.5	36.4	0.24	40	B43827A9225M***
450	1.0	8 x 11.5	23.5	0.24	24	B43827A5105M***

Composition of ordering code

*** = Version

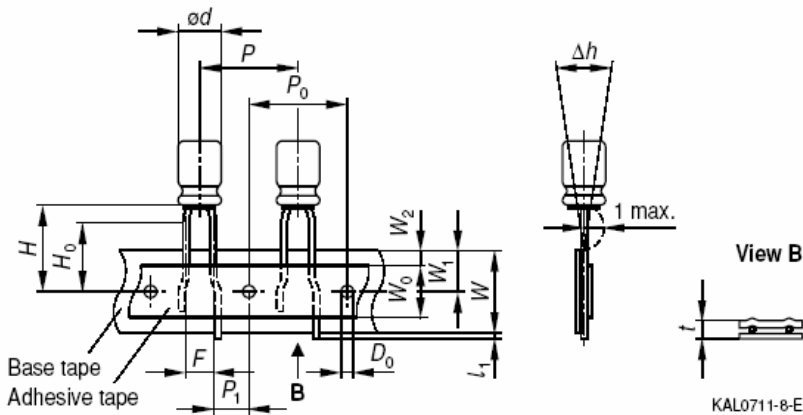
000 = for standard leads, bulk (for 8x11,5 mm)

007 = for taped leads, Ammo-pack, lead spacing F = 2.5mm (for 5x11 and 6,3x11 mm)

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

Taping

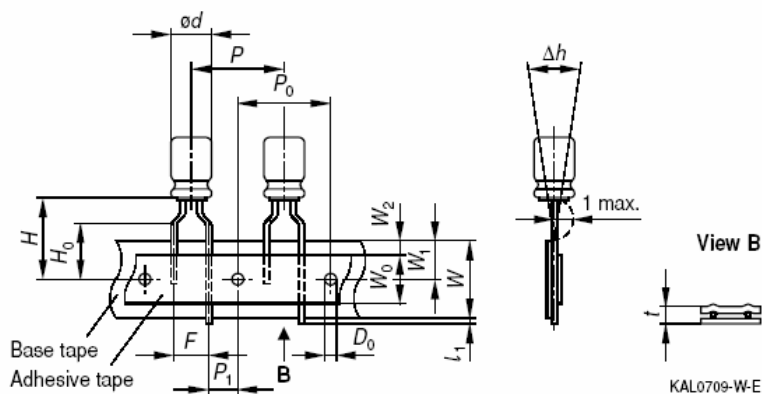
Lead spacing 2.5mm ($\phi d = 5.0$ and 6.3 mm)



ϕd	F	H	H_0	W	W_0	W_1	W_2	P	P_0	P_1	l_1	t	Δh	D_0
5	2.5	18.5	16.0	18.0	5.5	9.0	3.0	12.7	12.7	5.10	1.0	0.7	2.0	4.0
6.3														
Tolerance	+0.8 / -0.2	±0.75	±0.5	±0.5	Min.	±0.5	Max.	±1.0	±0.3	±0.7	Max.	±0.2	Max.	±0.2

Dimensions in mm

Lead spacing 5.0 mm ($\phi d = 5.0 \dots 8$ mm)



ϕd	F	H	H_0	W	W_0	W_1	W_2	P	P_0	P_1	l_1	t	Δh	D_0
5	5.0	18.5	16.0	18.0	5.5	9.0	3.0	12.7	12.7	3.85	1.0	0.7	2.0	4.0
6.3														
8	5.0	18.5	16.0	18.0	12.5	9.0	3.0	12.7	12.7	3.85	1.0	0.7	2.0	4.0
Tolerance	+0.8 / -0.2	±0.75	±0.5	±0.5	Min.	±0.5	Max.	±1.0	±0.3	±0.7	Max.	±0.2	Max.	±0.2

Dimensions in mm



Single Ended – Capacitors

B41827

Standard Series – 85°C

B43827

Marking of the capacitors

Manufacturer (company logo)

Series

Climatic category

Rated capacitance, tolerance (in coded form)

Rated voltage

Month and year of production (Example: **08.06** - Month: March ; Year: 2006)

Negative polarity identification