

ARCOTRONICS

EDD Aluminium Electrolytic Capacitors

SMD Surface mount lead terminals – High temperature 125°C / 1000 h

Description

Capacitor for high density printed circuit board.

Applications

High temperature application, Automotive

Features

Low profile vertical chip

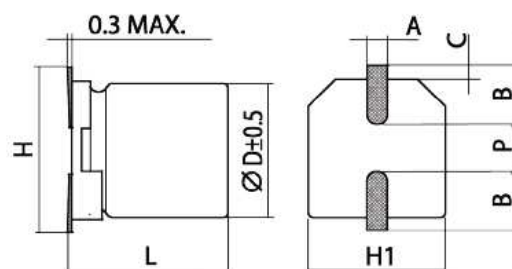
Marking

Series (A), Rated voltage (Vdc), Capacitance (μF)

Negative polarity: black line

Diagram of dimensions (Units=mm)

ØD	L	H	H1	A	B	C	P
4,0	5,4 +0,25/-0,1	5,5 MAX	4,3 ±0,2	0,65 ±0,1	1,8 ±0,2	0,35 ±0,2	1,0 ±0,2
5,0	5,4 +0,25/-0,1	6,5 MAX	5,3 ±0,2	0,65 ±0,1	2,2 ±0,2	0,35 ±0,2	1,5 ±0,2
6,3	5,4 +0,25/-0,1	7,8 MAX	6,6 ±0,2	0,65 ±0,1	2,6 ±0,2	0,35 ±0,2	1,8 ±0,2
6,3	7,7 ±0,3	7,8 MAX	6,6 ±0,2	0,65 ±0,1	2,6 ±0,2	0,35 ±0,2	1,8 ±0,2
8,0	6,2 ±0,3	9,5 MAX	8,3 ±0,2	0,65 ±0,1	3,4 ±0,2	0,35 ±0,2	2,0 ±0,2
8,0	10,2 ±0,3	10 MAX	8,3 ±0,2	0,90 ±0,2	3,4 ±0,2	0,70 ±0,2	3,4 ±0,2
10,0	10,2 ±0,3	13 MAX	10,3 ±0,2	0,90 ±0,2	3,5 ±0,2	0,70 ±0,2	4,6 ±0,2
12,5	13,5 ±0,5	15,2 MAX	12,8 ±0,2	1,25 ±0,2	4,9 ±0,2	1,0 ±0,2	4,6 ±0,2
12,5	16,0 ±0,5	15,2 MAX	12,8 ±0,2	1,25 ±0,2	4,9 ±0,2	1,0 ±0,2	4,6 ±0,2
16,0	16,5 ±1,0	18,7 MAX	16,3 ±0,2	2,0 ±0,2	5,8 ±0,2	1,0 ±0,2	6,0 ±0,2



Electrical characteristics

Rated working voltage	10 to 50 Vdc
Operating temperature	-40 to 125°C
Capacitance range	4.7 μF to 1500 μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	1000 hours (see conditions in Test method and performance)
Leakage current	I = 0.03 CV or 3μA whichever is greater C = rated capacitance (μF); V = rated voltage (Vdc) (after than D.C. rated working voltage at 20°C has been applied for 2 min)

Test method and performance

Conditions	Load life test	Shelf life test
Temperature:	125°C	125°C
Test duration:	1000 hours	1000 hours
Ripple current:	max ripple current at 120Hz 125°C specified in tabl e.	no ripple current applied.
Voltage:	the sum of D.C. voltage and the peak A.C. voltage must not exceed the rated voltage of capacitor.	no voltage applied.
Performance	The following specifications will be satisfied when the capacitors will be restored at 20°C.	
Capacitance change:	within ±30% of initial value.	within ±30% of initial value.
Dissipation factor:	not exceed 300% of the initial requirement.	not exceed 300% of the initial requirement.
Leakage current:	not exceed initial requirement.	not exceed initial requirement..

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	10	16	25	35	50
Z (-40°C) / Z (+20°C)	5	4	3	3	3

Compensation factor of ripple current (R.C.) vs. frequency

Frequency (Hz)	120 Hz	1 KHz	10 KHz	100 KHz
Multiplier factors	1.0	1.25	1.35	1.4

Compensation factor of ripple current (R.C.) vs. temperature

Temperature	50°C	70°C	85°C	105°C	125°C
Multiplier factors	1.9	1.75	1.4	1	1

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10 Vdc Rated voltage – 13 Vdc Surge voltage					
Rated Cap. 120 Hz 20°C (µF)	Case Size DxL (mm)	D.F. max 120 Hz 25°C (tgδ %)	R.C. 120 KHz 125°C (mA rms)	L.C. 20°C 2 min. (uA)	Arcotronics P/N *
220	8x10.2	32	90	66	EDD227M010A9MAA
330	10x10.2	32	112	99	EDD337M010A9PAA
470	12.5x13.5	32	480	141	EDD477M010A9RAA
680	12.5x16	32	585	204	EDD687M010A9SAA
1 000	12.5x16	32	585	300	EDD108M010A9SAA

16 Vdc Rated voltage – 20 Vdc Surge voltage					
Rated Cap. 120 Hz 20°C (µF)	Case Size DxL (mm)	D.F. max 120 Hz 25°C (tgδ %)	R.C. 120 KHz 85°C (mA/rms)	L.C. 20°C 2 min. (uA)	Arcotronics P/N *
100	8x10.2	24	66	48	EDD107M016A9MAA
220	10x10.2	24	102	105	EDD227M016A9PAA
330	12.5x13.5	24	480	159	EDD337M016A9RAA
470	12.5x13.5	24	480	225	EDD477M016A9RAA
680	16x16.5	24	650	327	EDD687M016A9TAA

25 Vdc Rated voltage – 32 Vdc Surge voltage					
Rated Cap. 120 Hz 20°C (µF)	Case Size DxL (mm)	D.F. max 120 Hz 25°C (tgδ %)	R.C. 120 KHz 85°C (mA/rms)	L.C. 20°C 2 min. (uA)	Arcotronics P/N *
100	8x10.2	21	74	75	EDD107M025A9MAA
220	10x10.2	21	116	165	EDD227M025A9PAA
330	12.5x13.5	21	480	246	EDD337M025A9RAA
470	16x16.5	21	650	351	EDD477M025A9TAA

35 Vdc Rated voltage – 44 Vdc Surge voltage					
Rated Cap. 120 Hz 20°C (µF)	Case Size DxL (mm)	D.F. max 120 Hz 25°C (tgδ %)	R.C. 120 KHz 85°C (mA/rms)	L.C. 20°C 2 min. (uA)	Arcotronics P/N *
47	8x10.2	18	52	48	EDD476M035A9MAA
100	10x10.2	18	80	105	EDD107M035A9PAA
220	12.5x13.5	18	357	231	EDD227M035A9RAA
330	16x16.5	18	650	345	EDD337M035A9TAA
470	16x16.5	18	650	495	EDD477M035A9TAA

50 Vdc Rated voltage – 63 Vdc Surge voltage					
Rated Cap. 120 Hz 20°C (µF)	Case Size DxL (mm)	D.F. max 120 Hz 25°C (tgδ %)	R.C. 120 KHz 85°C (mA/rms)	L.C. 20°C 2 min. (uA)	Arcotronics P/N *
33	8x10.2	18	46	50	EDD336M050A9MAA
47	10x10.2	18	58	71	EDD476M050A9MAA
100	12.5x13.5	18	357	150	EDD107M050A9PAA
220	16x16.5	18	552	330	EDD227M050A9RAA
330	16x16.5	18	552	495	EDD337M050A9TAA