

SMD Surface mount lead terminals – General Purpose 85°C / 2000 h

Description

Capacitor for high density printed circuit board.

Applications

Coupling, decoupling, by-pass, filtering.

Features

Low profile vertical chip.

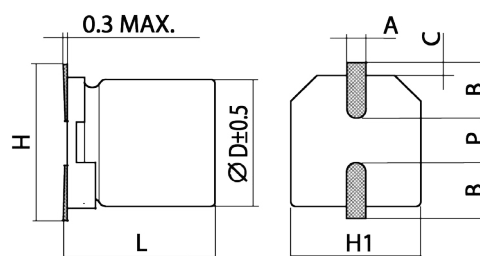
Marking

Series (G), 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 voltage	4 to 450 Vdc
Operating temperature	-40 to 85°C
Capacitance range	0.1 μF to 1000 μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	2000 hours (see conditions in Test method and performance)
Leakage current	$I = 0.01 CV (\mu A)$ or $3 \mu A$ whichever is greater for rated voltage $\leq 100 V$ $I = 0.04 CV + 100 (\mu A)$ for rated voltage $\geq 160 V$ C = rated capacitance (μF); V = rated voltage (Vdc) (after than D.C. rated working voltage at 20°C has been applied for 2 min)

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	63	100	160	200	250	400	450
Z (-25°C) / Z (20°C)	7	4	3	2	2	2	2	2	2	3	3	3	6	6
Z (-40°C) / Z (20°C)	15	8	6	4	4	3	3	3	3	6	6	6	10	10

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

Rated voltage	60 Hz	120 Hz	1 KHz	10 KHz
4 to 100 Vdc	0.80	1.00	1.15	1.25
160 to 450 Vdc	0.70	1.00	1.40	1.60

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

Rated voltage	50°C	75°C	85°C
4 to 100 Vdc	1.36	1.25	1.00
160 to 450 Vdc	1.60	1.25	1.00

Technical data and ordering codes

Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	4 Vdc Rated voltage - 5 Vdc Surge voltage			Arcotronics P/N
		D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	
22	4 x 5.4	35	19	3	EDK226M004A9BAA
33	4 x 5.4	35	26	3	EDK336M004A9BAA
47	4 x 5.4	35	34	3	EDK476M004A9BAA
100	5 x 5.4	35	61	4	EDK107M004A9DAA
220	6.3 x 5.4	35	82	9	EDK227M004A9GAA

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6.3 Vdc Rated voltage - 8 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
22	4 x 5.4	26	20	3	EDK226M6R3A9BAA
33	5 x 5.4	26	22	3	EDK336M6R3A9DAA
47	5 x 5.4	26	46	3	EDK476M6R3A9DAA
100	6.3 x 5.4	26	71	6	EDK107M6R3A9GAA
220	8 x 6.2	35	250	14	EDK227M6R3A9LAA
330	8 x 6.2	35	300	21	EDK337M6R3A9LAA
470	8 x 10.2	35	380	30	EDK477M6R3A9MAA
680	10 x 10.2	35	458	43	EDK687M6R3A9PAA
1000	10 x 10.2	35	700	63	EDK108M6R3A9PAA

10 Vdc Rated voltage - 13 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
15	4 x 5.4	30	23	3	EDK156M010A9BAA
22	4 x 5.4	30	28	3	EDK226M010A9BAA
33	4 x 5.4	30	29	3	EDK336M010A9BAA
33	5 x 5.4	20	43	3	EDK336M010A9DAA
47	5 x 5.4	30	43	5	EDK476M010A9DAA
100	6.3 x 5.4	26	70	10	EDK107M010A9GAA
220	6.3 x 7.7	26	220	22	EDK227M010A9HAA
220	8 x 6.2	26	250	22	EDK227M010A9LAA
330	8 x 10.2	26	330	33	EDK337M010A9MAA
470	10 x 10.2	26	400	47	EDK477M010A9PAA

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	4 x 5.4	16	20	3	EDK475M016A9BAA
10	4 x 5.4	16	28	3	EDK106M016A9BAA
22	4 x 5.4	26	27	4	EDK226M016A9BAA
22	5 x 5.4	16	39	4	EDK226M016A9DAA
33	5 x 5.4	26	45	5	EDK336M016A9DAA
33	6.3 x 5.4	16	66	5	EDK336M016A9GAA
47	6.3 x 5.4	16	70	8	EDK476M016A9GAA
100	6.3 x 5.4	20	70	16	EDK107M016A9GAA
150	6.3 x 7.7	26	109	24	EDK157M016A9HAA
220	6.3 x 7.7	20	215	35	EDK227M016A9HAA
220	8 x 10.2	20	280	35	EDK227M016A9MAA
330	10 x 10.2	20	380	53	EDK337M016A9PAA
470	8 x 10.2	20	365	75	EDK477M016A9MAA
470	10 x 10.2	20	420	75	EDK477M016A9PAA

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25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
1	4 x 5.4	16	9	3	EDK105M025A9BAA
2.2	4 x 5.4	16	14	3	EDK225M025A9BAA
4.7	3 x 5.4	16	11	3	EDK475M025A9AAA
4.7	4 x 5.4	14	22	3	EDK475M025A9BAA
10	5 x 5.4	14	28	3	EDK106M025A9DAA
22	5 x 5.4	14	45	5	EDK226M025A9DAA
22	6.3 x 5.4	14	55	6	EDK226M025A9GAA
33	6.3 x 5.4	14	65	8	EDK336M025A9GAA
47	6.3 x 5.4	20	70	12	EDK476M025A9GAA
47	8 x 6.2	16	96	12	EDK476M025A9LAA
68	6.3 x 7.7	20	95	17	EDK686M025A9HAA
100	6.3 x 7.7	16	135	25	EDK107M025A9HAA
100	8 x 6.2	16	145	25	EDK107M025A9LAA
100	8 x 10.2	16	180	25	EDK107M025A9MAA
220	8 x 10.2	16	300	55	EDK227M025A9MAA
220	10 x 10.2	16	310	55	EDK227M025A9PAA
330	10 x 10.2	16	350	82	EDK337M025A9PAA
470	10 x 10.2	16	450	117	EDK477M025A9PAA

35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
2.2	4 x 5.4	12	8	3	EDK225M035A9BAA
3.3	4 x 5.4	12	10	3	EDK335M035A9BAA
4.7	4 x 5.4	12	22	3	EDK475M035A9BAA
10	5 x 5.4	12	30	4	EDK106M035A9DAA
22	5 x 5.4	14	47	8	EDK226M035A9DAA
22	6.3 x 5.4	12	60	8	EDK226M035A9GAA
33	8 x 6.2	14	130	12	EDK336M035A9LAA
47	6.3 x 5.4	14	135	16	EDK476M035A9GAA
47	8 x 6.2	14	165	16	EDK476M035A9LAA
100	6.3 x 7.7	14	145	35	EDK107M035A9HAA
100	10 x 10.2	14	210	35	EDK107M035A9PAA
220	10 x 10.2	14	310	77	EDK227M035A9PAA
330	10 x 10.2	14	380	115	EDK337M035A9PAA

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size SIZE DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
0.1	4 x 5.4	12	1	3	EDK104M050A9BAA
0.22	4 x 5.4	12	2	3	EDK224M050A9BAA
0.33	4 x 5.4	12	3	3	EDK334M050A9BAA
0.47	4 x 5.4	12	5	3	EDK474M050A9BAA
1	4 x 5.4	12	10	3	EDK105M050A9BAA
2.2	4 x 5.4	12	16	3	EDK225M050A9BAA
3.3	4 x 5.4	12	16	3	EDK335M050A9BAA
4.7	4 x 5.4	12	20	3	EDK475M050A9BAA
4.7	5 x 5.4	12	23	3	EDK475M050A9BAA
10	6.3 x 5.4	12	35	5	EDK106M050A9GAA
22	8 x 6.2	12	110	11	EDK226M050A9LAA
33	8 x 10.2	12	120	16.5	EDK336M050A9MAA
47	6.3 x 7.7	12	98	23.5	EDK476M050A9HAA
47	10 x 10.2	12	130	23.5	EDK476M050A9PAA
100	8 x 10.2	12	165	50	EDK107M050A9MAA
100	10 x 10.2	12	190	50	EDK107M050A9PAA
220	10 x 10.2	12	300	110	EDK227M050A9PAA

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63 Vdc Rated voltage - 79 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	6.3 x 5.4	18	20	3	EDK475M063A9GAA
10	6.3 x 5.4	18	20	6	EDK106M063A9GAA
22	8 x 10.2	18	30	14	EDK226M063A9MAA
33	8 x 10.2	18	30	21	EDK336M063A9MAA
47	8 x 10.2	18	30	30	EDK476M063A9MAA
100	10 x 10.2	18	60	63	EDK108M065A9PAA

100 Vdc Rated voltage - 125 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
3.3	8 x 10.2	18	30	3	EDK335M100A9MAA
4.7	8 x 10.2	18	50	5	EDK475M100A9MAA
10	6.3 x 7.7	18	40	10	EDK106M100A9HAA
10	8 x 10.2	18	55	10	EDK106M100A9MAA
22	10 x 10.2	18	60	22	EDK226M100A9PAA
33	10 x 10.2	18	65	33	EDK336M100A9PAA

160 Vdc Rated voltage - 200 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
33	12.5 x 13.5	20	240	310	EDK336M160A9RAA
47	12.5 x 16	20	370	400	EDK476M160A9SAA
68	16 x 16.5	20	500	540	EDK686M160A9TAA

200 Vdc Rated voltage - 250 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
22	12.5 x 13.5	20	240	280	EDK226M200A9RAA
33	12.5 x 16	20	310	370	EDK336M200A9SAA
47	16 x 16.5	20	340	480	EDK476M200A9TAA
68	16 x 16.5	20	340	650	EDK686M200A9TAA

250 Vdc Rated voltage - 300 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
10	12.5 x 13.5	20	150	200	EDK106M250A9RAA
22	12.5 x 13.5	20	150	320	EDK226M250A9RAA
33	12.5 x 16	20	240	430	EDK336M250A9SAA
47	16 x 16.5	20	340	570	EDK476M250A9TAA

400 Vdc Rated voltage - 450 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	12.5 x 13.5	25	120	180	EDK475M400A9RAA
10	12.5 x 13.5	25	120	260	EDK106M400A9RAA
22	16 x 16.5	25	140	460	EDK226M400A9TAA
33	16 x 16.5	25	140	630	EDK336M400A9TAA

450 Vdc Rated voltage - 500 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	12.5 x 13.5	25	120	180	EDK475M450A9RAA
10	12.5 x 16	25	130	280	EDK106M450A9SAA
22	16 x 16.5	25	140	500	EDK226M450A9TAA

SMD Surface mount lead terminals – Long life 85°C / 3000 to 5000 h

Description

Capacitors for high density printed circuit board.

Applications

Monitor, computer, audio, video, communication.

Features

Low profile vertical chip

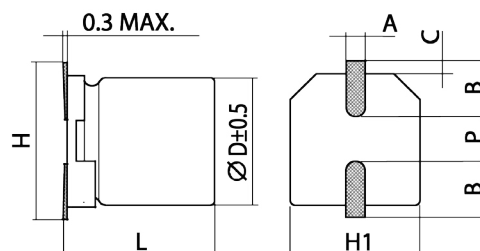
Marking

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

Negative polarity: black line

Diagram of dimensions (Units=mm)

Ø D	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



Electrical characteristics

Rated voltage	4 to 100 Vdc
Operating temperature	-40 to 85°C
Capacitance range	0.1 μF to 1000 μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	$\varnothing \leq 6.3\text{mm} = 3000$ hours (see conditions in Test method and performance) $\varnothing \geq 8\text{mm} = 5000$ hours (see conditions in Test method and performance)
Leakage current	$I = 0.01\text{ CV } (\mu\text{A})$ or $3\mu\text{A}$ 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)

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	63	100
Z (-25°C) / Z (20°C)	7	4	3	2	2	2	2	2	2
Z (-40°C) / Z (20°C)	15	8	6	4	4	3	3	3	3

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

Frequency (Hz)	60 Hz	120 Hz	1 KHz	10 KHz
Multiplier factors	0.80	1.00	1.15	1.25

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

Temperature (°C)	50°C	75°C	85°C
Multiplier factors	1.36	1.25	1.00

Technical data and ordering codes

4 Vdc Rated voltage - 5 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
47	4 x 5.4	35	34	3	EDL476M004A9BAA
100	5 x 5.4	35	61	4	EDL107M004A9DAA
220	6.3 x 5.4	35	82	9	EDL227M004A9GAA

6.3 Vdc Rated voltage - 8 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
22	4 x 5.4	26	20	3	EDL226M6R3A9BAA
33	5 x 5.4	26	22	3	EDL336M6R3A9DAA
47	5 x 5.4	26	46	3	EDL476M6R3A9DAA
100	6.3 x 5.4	26	71	6	EDL107M6R3A9GAA
220	8 x 6.2	35	250	14	EDL227M6R3A9LAA
330	8 x 6.2	35	300	21	EDL337M6R3A9LAA
470	8 x 10.2	35	380	30	EDL477M6R3A9MAA
1000	10 x 10.2	35	700	63	EDL108M6R3A9PAA

SMD Surface mount lead terminals – Long life 85°C / 3000 to 5000 h

10 Vdc Rated voltage - 13 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
22	4 x 5.4	30	28	3	EDL226M010A9BAA
33	4 x 5.4	30	29	3	EDL336M010A9BAA
33	5 x 5.4	20	43	3	EDL336M010A9DAA
47	5 x 5.4	30	43	5	EDL476M010A9DAA
100	6.3 x 5.4	26	70	10	EDL107M010A9GAA
220	8 x 6.2	26	250	22	EDL227M010A9LAA
330	8 x 10.2	26	330	33	EDL337M010A9MAA
470	10 x 10.2	26	400	47	EDL477M010A9PAA

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	4 x 5.4	16	20	3	EDL475M016A9BAA
10	4 x 5.4	16	28	3	EDL106M016A9BAA
22	4 x 5.4	26	27	4	EDL226M016A9BAA
22	5 x 5.4	16	39	4	EDL226M016A9DAA
33	5 x 5.4	26	45	5	EDL336M016A9DAA
33	6.3 x 5.4	16	66	5	EDL336M016A9GAA
47	6.3 x 5.4	16	70	8	EDL476M016A9GAA
100	6.3 x 5.4	20	70	16	EDL107M016A9GAA
220	8 x 10.2	20	280	35	EDL227M016A9MAA
330	10 x 10.2	20	380	53	EDL337M016A9PAA
470	10 x 10.2	20	420	75	EDL477M016A9PAA

25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	4 x 5.4	14	22	3	EDL475M025A9BAA
10	5 x 5.4	14	28	3	EDL106M025A9DAA
22	6.3 x 5.4	14	55	6	EDL226M025A9GAA
33	6.3 x 5.4	14	65	8	EDL336M025A9GAA
47	6.3 x 5.4	20	70	12	EDL476M025A9GAA
47	8 x 6.2	16	96	12	EDL476M025A9LAA
100	8 x 10.2	16	180	25	EDL107M025A9MAA
220	10 x 10.2	16	310	55	EDL227M025A9PAA

35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
2.2	4 x 5.4	12	8	3	EDL225M035A9BAA
3.3	4 x 5.4	12	10	3	EDL335M035A9BAA
4.7	4 x 5.4	12	22	3	EDL475M035A9BAA
10	5 x 5.4	12	30	4	EDL106M035A9DAA
22	6.3 x 5.4	12	60	8	EDL226M035A9GAA
33	8 x 6.2	14	130	11	EDL336M035A9LAA
47	8 x 6.2	14	165	16	EDL476M035A9LAA
100	10 x 10.2	14	210	35	EDL107M035A9PAA

SMD Surface mount lead terminals – Long life 85°C / 3000 to 5000 h

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
0.1	4 x 5.4	12	1	3	EDL104M050A9BAA
0.22	4 x 5.4	12	2	3	EDL224M050A9BAA
0.33	4 x 5.4	12	3	3	EDL334M050A9BAA
0.47	4 x 5.4	12	5	3	EDL474M050A9BAA
1	4 x 5.4	12	10	3	EDL105M050A9BAA
2.2	4 x 5.4	12	16	3	EDL225M050A9BAA
3.3	4 x 5.4	12	16	3	EDL335M050A9BAA
4.7	5 x 5.4	12	23	3	EDL475M050A9DAA
10	6.3 x 5.4	12	35	5	EDL106M050A9GAA
22	8 x 6.2	12	110	11	EDL226M050A9LAA
33	8 x 10.2	12	120	16	EDL336M050A9MAA
47	10 x 10.2	12	130	23	EDL476M050A9PAA
100	10 x 10.2	12	190	50	EDL107M050A9PAA

63 Vdc Rated voltage - 79 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	8 x 10.2	18	25	3	EDL475M063A9MAA
10	8 x 10.2	18	25	6	EDL106M063A9MAA
22	8 x 10.2	18	45	14	EDL226M063A9MAA
33	10 x 10.2	18	45	21	EDL336M063A9PAA
47	10 x 10.2	18	55	30	EDL476M063A9PAA

100 Vdc Rated voltage - 125 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
3.3	8 x 10.2	18	30	3	EDL335M100A9MAA
4.7	8 x 10.2	18	80	5	EDL475M100A9MAA
10	8 x 10.2	18	85	10	EDL106M100A9MAA
22	10 x 10.2	18	85	22	EDL226M100A9PAA
33	10 x 10.2	18	90	33	EDL336M100A9PAA

SMD Surface mount lead terminals – General Purpose 105°C / 1000 h

Description

Capacitors for high density printed circuit board.

Applications

Coupling, decoupling, by-pass, filtering.

Features

Low profile vertical chip

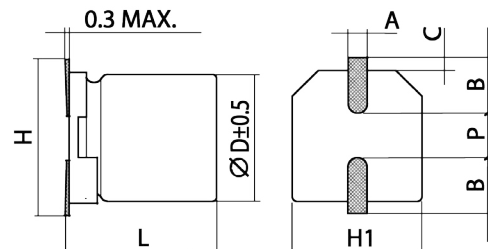
Marking

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

Negative polarity: black line

Diagram of dimensions (Units=mm)

$\varnothing D$	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



Electrical characteristics

Rated voltage	4 to 100 Vdc
Operating temperature	-40 to 105°C
Capacitance range	0.1 μF to 1000 μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	1000 hours (see conditions in Test method and performance)
Leakage current	I = 0.01 CV (μA) or 3 μA 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)

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	63	100
Z (-25°C) / Z (20°C)	7	4	3	2	2	2	2	2	2
Z (-40°C) / Z (20°C)	15	8	6	4	4	3	3	3	3

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

Frequency (Hz)	60 Hz	120 Hz	1 KHz	10 KHz
Multiplier factors	0.85	1.00	1.15	1.25

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

Temperature	50°C	70°C	85°C	105°C
Multiplier factors	1.90	1.75	1.40	1.00

Technical data and ordering codes

4 Vdc Rated voltage - 5 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
22	4 x 5.4	35	20	3	EDE226M004A9BAA
33	4 x 5.4	35	26	3	EDE336M004A9BAA
47	4 x 5.4	35	34	3	EDE476M004A9BAA
100	5 x 5.4	35	61	4	EDE107M004A9DAA
220	6.3 x 5.4	35	82	9	EDE227M004A9GAA

6.3 Vdc Rated voltage - 8 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
22	4 x 5.4	30	29	3	EDE226M6R3A9BAA
33	4 x 5.4	30	43	3	EDE336M6R3A9BAA
47	5 x 5.4	30	46	3	EDE476M6R3A9DAA
100	6.3 x 5.4	35	71	6	EDE107M6R3A9GAA
220	8 x 6.2	35	130	14	EDE227M6R3A9LAA
330	8 x 6.2	35	155	21	EDE337M6R3A9LAA
470	10 x 10.2	35	260	30	EDE477M6R3A9PAA
1000	10 x 10.2	35	380	63	EDE108M6R3A9PAA

SMD Surface mount lead terminals – General Purpose 105°C / 1000 h

10 Vdc Rated voltage - 13 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
10	4 x 5.4	30	24	3	EDE106M010A9BAA
22	4 x 5.4	30	36	3	EDE226M010A9BAA
33	4 x 5.4	30	45	3	EDE336M010A9BAA
47	6.3 x 5.4	30	70	5	EDE476M010A9GAA
100	8 x 6.2	30	110	10	EDE107M010A9LAA
220	8 x 6.2	30	165	22	EDE227M010A9LAA
330	10 x 10.2	26	230	33	EDE337M010A9PAA
470	10 x 10.2	26	270	47	EDE477M010A9PAA
1000	10 x 10.2	26	390	100	EDE108M010A9PAA

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
4.7	4 x 5.4	16	20	3	EDE475M016A9BAA
10	4 x 5.4	16	28	3	EDE106M016A9BAA
22	5 x 5.4	16	39	4	EDE226M016A9DAA
33	6.3 x 5.4	20	65	5	EDE336M016A9GAA
47	6.3 x 5.4	20	70	8	EDE476M016A9GAA
100	8 x 6.2	20	130	16	EDE107M016A9LAA
220	10 x 10.2	20	210	35	EDE227M016A9PAA
330	10 x 10.2	20	230	53	EDE337M016A9PAA
470	10 x 10.2	20	275	75	EDE477M016A9PAA

25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
4.7	4 x 5.4	14	22	3	EDE475M025A9BAA
10	5 x 5.4	14	28	3	EDE106M025A9DAA
22	6.3 x 5.4	14	55	6	EDE226M025A9GAA
33	6.3 x 5.4	16	65	8	EDE336M025A9GAA
47	8 x 6.2	16	91	12	EDE476M025A9LAA
100	8 x 6.2	16	132	25	EDE107M025A9LAA
220	10 x 10.2	16	273	55	EDE227M025A9PAA

35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
2.2	4 x 5.4	12	15	3	EDE225M035A9BAA
3.3	4 x 5.4	12	18	3	EDE335M035A9BAA
4.7	4 x 5.4	12	22	3	EDE475M035A9BAA
10	5 x 5.4	12	30	4	EDE106M035A9DAA
22	6.3 x 5.4	14	60	8	EDE226M035A9GAA
33	8 x 6.2	14	84	11	EDE336M035A9LAA
47	8 x 6.2	14	100	16	EDE476M035A9LAA
100	10 x 10.2	14	160	35	EDE107M035A9PAA
220	10 x 10.2	14	240	77	EDE227M035A9PAA

SMD Surface mount lead terminals – General Purpose 105°C / 1000 h

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
0.1	4 x 5.4	12	1	3	EDE104M050A9BAA
0.22	4 x 5.4	12	2	3	EDE224M050A9BAA
0.33	4 x 5.4	12	3	3	EDE334M050A9BAA
0.47	4 x 5.4	12	5	3	EDE474M050A9BAA
1	4 x 5.4	12	10	3	EDE105M050A9BAA
2.2	4 x 5.4	12	16	3	EDE225M050A9BAA
3.3	4 x 5.4	12	16	3	EDE335M050A9BAA
4.7	5 x 5.4	12	23	3	EDE475M050A9DAA
10	6.3 x 5.4	12	35	5	EDE106M050A9GAA
22	8 x 6.2	12	70	11	EDE226M050A9LAA
33	8 x 6.2	12	85	16	EDE336M050A9LAA
47	10 x 10.2	12	100	23	EDE476M050A9PAA
100	10 x 10.2	12	145	50	EDE107M050A9PAA

63 Vdc Rated voltage - 79 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	6.3 x 5.4	18	20	3	EDE475M063A9GAA
10	6.3 x 5.4	18	20	6	EDE106M063A9GAA
22	8 x 10.2	18	30	14	EDE226M063A9MAA
33	8 x 10.2	18	30	21	EDE336M063A9MAA
47	8 x 10.2	18	30	30	EDE476M063A9MAA
100	10 x 10.2	18	60	63	EDE107M063A9PAA

100 Vdc Rated voltage - 125 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
3.3	8 x 10.2	18	30	3	EDE335M100A9MAA
4.7	8 x 10.2	18	50	5	EDE475M100A9MAA
10	8 x 10.2	18	55	10	EDE106M100A9MAA
22	10 x 10.2	18	60	22	EDE226M100A9PAA
33	10 x 10.2	18	65	33	EDE336M100A9PAA

SMD Surface mount lead terminals – Long life 105°C / 2000 h

Description

Capacitors for high density printed circuit board.

Applications

Monitor, computer, audio, video, communication.

Features

Low profile vertical chip.

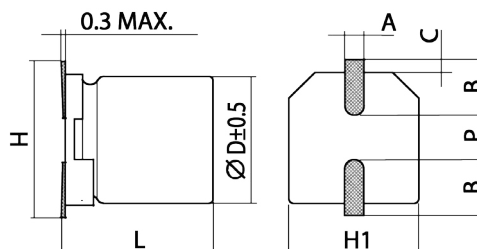
Marking

Series (D), 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 voltage	6.3 to 450 Vdc
Operating temperature	-40 to 105°C
Capacitance range	0.1μF to 1000μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	2000 hours (see conditions in Test method and performance)
Leakage current	$I = 0.01 CV (\mu A)$ or $3\mu A$ whichever is greater for rated voltage $\leq 100 V$ $I = 0.04 CV + 100 (\mu A)$ for rated voltage $\geq 160 V$ $C =$ rated capacitance (μF); $V =$ rated voltage (Vdc) (after than D.C. rated working voltage at 20°C has been applied for 2 min)

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	4	6.3	10	16	25	35	50	63	100	160	200	250	400	450
Z (-25°C) / Z (20°C)	7	4	3	2	2	2	2	2	2	3	3	3	6	6
Z (-40°C) / Z (20°C)	15	8	6	4	4	3	3	3	3	6	6	6	10	10

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

Rated voltage	60 Hz	120 Hz	1 KHz	10 KHz
4 to 100 Vdc	0.85	1.00	1.15	1.25
160 to 450 Vdc	0.70	1.00	1.40	1.60

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

Rated voltage	50°C	70°C	85°C	105°C
4 to 100 Vdc	1.90	1.75	1.40	1.00
160 to 450 Vdc	2.35	2.00	1.80	1.00

Technical data and ordering codes

6.3 Vdc Rated voltage - 8 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
220	8 x 6.2	35	130	14	EDH227M6R3A9LAA
330	8 x 6.2	35	155	21	EDH337M6R3A9LAA
470	10 x 10.2	35	260	30	EDH477M6R3A9PAA
1000	10 x 10.2	35	380	63	EDH108M6R3A9PAA

10 Vdc Rated voltage - 13 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size SIZE DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
100	8 x 6.2	30	110	10	EDH107M010A9LAA
220	8 x 6.2	30	165	22	EDH227M010A9LAA
330	10 x 10.2	26	230	33	EDH337M010A9PAA
470	10 x 10.2	26	270	47	EDH477M010A9PAA
1000	10 x 10.2	26	390	100	EDH108M010A9PAA

SMD Surface mount lead terminals – Long life 105°C / 2000 h

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
100	8 x 6.2	20	125	16	EDH107M016A9LAA
220	10 x 10.2	20	210	35	EDH227M016A9PAA
330	10 x 10.2	20	230	53	EDH337M016A9PAA
470	10 x 10.2	20	275	75	EDH477M016A9PAA

25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
47	8 x 6.2	16	91	12	EDH476M025A9LAA
100	8 x 6.2	16	132	25	EDH107M025A9LAA
220	10 x 10.2	16	273	55	EDH227M025A9PAA

35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
33	8 x 6.2	14	84	11	EDH336M035A9LAA
47	8 x 6.2	14	100	16	EDH476M035A9LAA
100	10 x 10.2	14	160	35	EDH107M035A9PAA
220	10 x 10.2	14	240	77	EDH227M035A9PAA
330	10 x 10.2	14	470	115	EDH337M035A9PAA

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
22	8 x 6.2	12	70	11	EDH226M050A9LAA
33	8 x 6.2	12	85	16	EDH336M050A9LAA
47	10 x 10.2	12	100	23	EDH476M050A9PAA
100	10 x 10.2	12	145	50	EDH107M050A9PAA

63 Vdc Rated voltage - 79 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	8 x 10.2	18	25	3	EDH475M063A9MAA
10	8 x 10.2	18	25	6	EDH106M063A9MAA
22	10 x 10.2	18	45	14	EDH226M063A9PAA
33	10 x 10.2	18	45	21	EDH336M063A9PAA
47	10 x 10.2	18	55	30	EDH476M063A9PAA

100 Vdc Rated voltage - 125 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
3.3	8 x 10.2	18	30	3	EDH335M100A9MAA
4.7	8 x 10.2	18	80	5	EDH475M100A9MAA
10	8 x 10.2	18	85	10	EDH106M100A9MAA
22	10 x 10.2	18	85	22	EDH226M100A9PAA
33	10 x 10.2	18	90	33	EDH336M100A9PAA

SMD Surface mount lead terminals – Long life 105°C / 2000 h

160 Vdc Rated voltage - 200 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
33	12.5 x 13.5	20	95	310	EDH336M160A9RAA
47	12.5 x 16	20	110	400	EDH476M160A9SAA
100	16 x 16.5	20	190	740	EDH107M160A9TAA

200 Vdc Rated voltage - 250 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
10	12.5 x 13.5	20	80	180	EDH106M200A9RAA
22	12.5 x 13.5	20	90	280	EDH226M200A9RAA
33	12.5 x 16	20	110	370	EDH336M200A9SAA
47	16 x 16.5	20	220	480	EDH476M200A9TAA

250 Vdc Rated voltage - 300 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
3.3	12.5 x 13.5	20	65	135	EDH335M250A9RAA
4.7	12.5 x 13.5	20	68	150	EDH475M250A9RAA
10	12.5 x 13.5	20	72	200	EDH106M250A9RAA
22	12.5 x 13.5	20	90	320	EDH226M250A9RAA
33	16 x 16.5	20	180	430	EDH336M250A9TAA
47	16 x 16.5	20	180	570	EDH476M250A9TAA

400 Vdc Rated voltage - 450 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	12.5 x 13.5	25	50	180	EDH475M400A9RAA
10	12.5 x 13.5	25	65	260	EDH106M400A9RAA
22	16 x 16.5	25	85	460	EDH226M400A9TAA

450 Vdc Rated voltage - 500 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	R.C. 120 Hz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
3.3	12.5 x 13.5	25	40	160	EDH335M450A9RAA
4.7	12.5 x 13.5	25	50	180	EDH475M450A9RAA
10	12.5 x 16	25	55	280	EDH106M450A9SAA
22	16 x 16.5	25	85	500	EDH226M450A9TAA

SMD Surface mount lead terminals - Low Impedance 105°C / 1000 h

Description

Capacitors for high density printed circuit board.

Applications

Coupling, decoupling, filtering, buffering.

Features

Low profile vertical chip

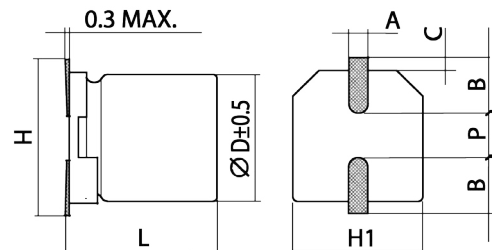
Marking

Series (Z), Rated voltage (Vdc), Rated capacitance (μF)

Negative polarity: black line

Diagram of dimensions (Units=mm)

Ø D	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



Electrical characteristics

Rated voltage	4 to 50 Vdc
Operating temperature	-40 to 105°C
Capacitance range	0.1 μF to 1000 μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	1000 hours (see conditions in Test method and performance)
Leakage current	I = 0.01 CV (μA) or 3 μA 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)

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	4	6.3	10	16	25	35	50
Z (-25°C) / Z (20°C)	4	2	2	2	2	2	2
Z (-40°C) / Z (20°C)	8	4	4	3	3	3	3

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

Frequency (Hz)	120 Hz	1 kHz	10 kHz	100 kHz
Multiplier factors	0.40	0.70	0.85	1.00

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

Temperature	50°C	70°C	85°C	105°C
Multiplier factors	1.90	1.75	1.40	1.00

Technical data and ordering codes

4 Vdc Rated voltage - 5 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
4.7	4.0 x 5.4	35	4.0	60	3	EDC475M004A9BAA
6.8	4.0 x 5.4	35	4.0	60	3	EDC685M004A9BAA
10	4.0 x 5.4	35	4.0	60	3	EDC106M004A9BAA
22	4.0 x 5.4	35	4.0	60	3	EDC226M004A9BAA
33	4.0 x 5.4	35	4.0	60	3	EDC336M004A9BAA
47	4.0 x 5.4	35	4.0	60	3	EDC476M004A9BAA
68	4.0 x 5.4	35	4.0	60	3	EDC686M004A9BAA
100	5.0 x 5.4	35	3.0	95	4	EDC107M004A9DAA
150	6.3 x 5.4	35	2.6	140	6	EDC157M004A9GAA
220	6.3 x 5.4	35	2.6	140	9	EDC227M004A9GAA

SMD Surface mount lead terminals - Low Impedance 105°C / 1000 h

6.3 Vdc Rated voltage - 8 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
22	4.0 x 5.4	26	4.0	60	3	EDC226M6R3A9BAA
33	5.0 x 5.4	26	2.6	95	3	EDC336M6R3A9DAA
47	5.0 x 5.4	26	2.6	95	3	EDC476M6R3A9DAA
68	6.3 x 5.4	26	1.3	140	4	EDC686M6R3A9GAA
100	6.3 x 5.4	26	1.3	140	6	EDC107M6R3A9GAA
150	8.0 x 6.2	26	0.8	230	9	EDC157M6R3A9LAA
220	8.0 x 6.2	26	0.8	230	14	EDC227M6R3A9LAA
330	08.0 x 10.2	26	0.5	450	21	EDC337M6R3A9MAA
470	10.0 x 10.2	26	0.3	670	30	EDC477M6R3A9PAA
1000	10.0 x 10.2	26	0.3	670	63	EDC108M6R3A9PAA

10 Vdc Rated voltage - 13 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
10	4.0 x 5.4	19	4.0	60	3	EDC106M010A9BAA
22	5.0 x 5.4	19	2.6	95	3	EDC226M010A9DAA
33	5.0 x 5.4	19	2.6	95	3	EDC336M010A9DAA
47	6.3 x 5.4	19	1.3	95	5	EDC476M010A9GAA
68	6.3 x 5.4	19	1.3	140	7	EDC686M010A9GAA
100	6.3 x 5.4	19	1.3	140	10	EDC107M010A9GAA
150	8.0 x 6.2	19	0.8	230	15	EDC157M010A9LAA
220	8.0 x 6.2	19	0.8	230	22	EDC227M010A9LAA
330	18.0 x 10.2	19	0.5	450	33	EDC337M010A9MAA
470	10.0 x 10.2	19	0.3	670	47	EDC477M010A9PAA
1000	10.0 x 10.2	19	0.3	670	100	EDC108M010A9PAA

16 Vdc Rated voltage - 20 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
4.7	4.0 x 5.4	16	4.0	60	3	EDC475M016A9BAA
6.8	4.0 x 5.4	16	4.0	60	3	EDC685M016A9BAA
10	4.0 x 5.4	16	4.0	60	3	EDC106M016A9BAA
22	5.0 x 5.4	16	2.6	95	3	EDC226M016A9DAA
33	5.0 x 5.4	16	2.6	95	5	EDC336M016A9DAA
47	6.3 x 5.4	16	1.3	140	7	EDC476M016A9GAA
68	8.0 x 6.2	16	0.8	230	11	EDC686M016A9LAA
100	8.0 x 6.2	16	0.8	230	16	EDC107M016A9LAA
150	08.0 x 10.2	16	0.5	450	24	EDC157M016A9MAA
220	08.0 x 10.2	16	0.5	450	35	EDC227M016A9MAA
330	10.0 x 10.2	16	0.3	670	53	EDC337M016A9PAA
470	10.0 x 10.2	16	0.3	670	75	EDC477M016A9PAA

25 Vdc Rated voltage - 32 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
4.7	4.0 x 5.4	14	4.0	60	3	EDC475M025A9BAA
6.8	4.0 x 5.4	14	4.0	60	3	EDC685M025A9BAA
10	5.0 x 5.4	14	2.6	95	3	EDC106M025A9DAA
22	6.3 x 5.4	14	1.3	140	5	EDC226M025A9GAA
33	6.3 x 5.4	14	1.3	140	8	EDC336M025A9GAA
47	6.3 x 5.4	14	1.3	140	12	EDC476M025A9GAA
68	08.0 x 10.2	14	0.5	450	17	EDC686M025A9MAA
100	08.0 x 10.2	14	0.5	450	25	EDC107M025A9MAA
150	10.0 x 10.2	14	0.3	670	37	EDC157M025A9PAA
220	10.0 x 10.2	14	0.3	670	55	EDC227M025A9PAA

SMD Surface mount lead terminals - Low Impedance 105°C / 1000 h

35 Vdc Rated voltage - 44 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
1	4.0 x 5.4	12	4.0	60	3	EDC105M035A9BAA
2.2	4.0 x 5.4	12	4.0	60	3	EDC225M035A9BAA
3.3	4.0 x 5.4	12	4.0	60	3	EDC335M035A9BAA
4.7	4.0 x 5.4	12	4.0	60	3	EDC475M035A9BAA
6.8	5.0 x 5.4	12	2.6	95	3	EDC685M035A9DAA
10	5.0 x 5.4	12	2.6	95	3	EDC106M035A9DAA
22	6.3 x 5.4	12	1.3	140	8	EDC226M035A9GAA
33	8.0 x 6.2	12	0.8	230	11	EDC336M035A9LAA
47	8.0 x 6.2	12	0.8	230	16	EDC476M035A9LAA
68	8.0 x 6.2	12	0.8	230	24	EDC686M035A9LAA
100	10.0 x 10.2	12	0.3	670	35	EDC107M035A9PAA
150	10.0 x 10.2	12	0.3	670	52	EDC157M035A9PAA
220	10.0 x 10.2	12	0.3	670	77	EDC227M035A9PAA

50 Vdc Rated voltage - 63 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
0.1	4.0 x 5.4	12	5.0	60	3	EDC104M050A9BAA
0.22	4.0 x 5.4	12	5.0	60	3	EDC224M050A9BAA
0.33	4.0 x 5.4	12	5.0	60	3	EDC334M050A9BAA
0.47	4.0 x 5.4	12	5.0	60	3	EDC474M050A9BAA
1	4.0 x 5.4	12	5.0	60	3	EDC105M050A9BAA
2.2	4.0 x 5.4	12	5.0	60	3	EDC225M050A9BAA
3.3	4.0 x 5.4	12	5.0	60	3	EDC335M050A9BAA
4.7	5.0 x 5.4	12	4.0	95	3	EDC475M050A9DAA
6.8	6.3 x 5.4	12	2.6	140	3	EDC685M050A9GAA
10	6.3 x 5.4	12	2.6	140	5	EDC106M050A9GAA
22	8.0 x 6.2	12	1.3	230	11	EDC226M050A9LAA
33	08.0 x 10.2	12	1.1	450	16	EDC336M050A9MAA
47	10.0 x 10.2	12	0.8	670	23	EDC476M050A9PAA
68	10.0 x 10.2	12	0.8	670	34	EDC686M050A9PAA
100	10.0 x 10.2	12	0.8	670	50	EDC107M050A9PAA

SMD Surface mount lead terminals - Low Impedance and long life 105°C / 2000 h

Description

Capacitors for high density printed circuit board.

Applications

Coupling, decoupling, filtering, buffering.

Features

Low profile vertical chip

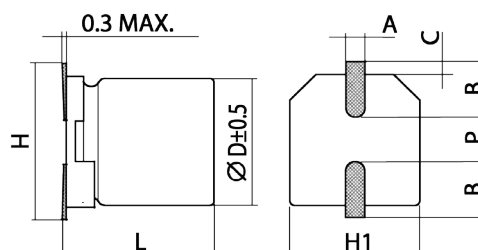
Marking

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

Negative polarity: black line

Diagram of dimensions (Units=mm)

$\varnothing D$	L	H	H1	A	B	C	P
4,0	5,4 +0,25/-0,1	5,5 MAX	4,3 $\pm 0,2$	0,65 $\pm 0,1$	1,8 $\pm 0,2$	0,35 $\pm 0,2$	1,0 $\pm 0,2$
5,0	5,4 +0,25/-0,1	6,5 MAX	5,3 $\pm 0,2$	0,65 $\pm 0,1$	2,2 $\pm 0,2$	0,35 $\pm 0,2$	1,5 $\pm 0,2$
6,3	5,4 +0,25/-0,1	7,8 MAX	6,6 $\pm 0,2$	0,65 $\pm 0,1$	2,6 $\pm 0,2$	0,35 $\pm 0,2$	1,8 $\pm 0,2$
6,3	7,7 $\pm 0,3$	7,8 MAX	6,6 $\pm 0,2$	0,65 $\pm 0,1$	2,6 $\pm 0,2$	0,35 $\pm 0,2$	1,8 $\pm 0,2$
8,0	6,2 $\pm 0,3$	9,5 MAX	8,3 $\pm 0,2$	0,65 $\pm 0,1$	3,4 $\pm 0,2$	0,35 $\pm 0,2$	2,0 $\pm 0,2$
8,0	10,2 $\pm 0,3$	10 MAX	8,3 $\pm 0,2$	0,90 $\pm 0,2$	3,4 $\pm 0,2$	0,70 $\pm 0,2$	3,4 $\pm 0,2$
10,0	10,2 $\pm 0,3$	13 MAX	10,3 $\pm 0,2$	0,90 $\pm 0,2$	3,5 $\pm 0,2$	0,70 $\pm 0,2$	4,6 $\pm 0,2$



Electrical characteristics

Rated voltage	6.3 to 35 Vdc
Operating temperature	-40 to 105°C
Capacitance range	4.7 μF to 1500 μF
Capacitance tolerance	$\pm 20\%$ at 120Hz / 20°C
Endurance test	2000 hours (see conditions in Test method and performance)
Leakage current	$I = 0.01 CV (\mu\text{A})$ or $3\mu\text{A}$ 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)

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	6.3	10	16	25	35
Z (-25°C) / Z (20°C)	2	2	2	2	2
Z (-40°C) / Z (20°C)	3	3	3	3	3

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

Frequency (Hz)	120 Hz	1 kHz	10 kHz	100 kHz
Multiplier factors	0.70	0.80	0.90	1.00

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

Temperature	50°C	70°C	85°C	105°C
Multiplier factors	1.90	1.75	1.40	1.00

Technical data and ordering codes

Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	6.3 Vdc Rated voltage - 8 Vdc Surge voltage				Arcotronics P/N
		D.F. 120 Hz 20°C ($\tan\delta \%$)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	
22	4 x 5.4	26	1.93	90	3	EDY226M6R3A9BAA
47	4 x 5.4	26	1.93	90	3	EDY476M6R3A9BAA
47	5 x 5.4	26	1.0	160	3	EDY476M6R3A9DAA
100	5 x 5.4	26	1.0	160	6	EDY107M6R3A9DAA
100	6.3 x 5.4	26	0.52	240	6	EDY107M6R3A9GAA
220	8 x 6.2	26	0.36	240	14	EDY227M6R3A9LAA
330	6.3 x 7.7	26	0.34	280	21	EDY337M6R3A9HAA
330	8 x 6.2	26	0.26	300	21	EDY337M6R3A9LAA
470	8 x 10.2	26	0.16	600	30	EDY477M6R3A9MAA
1000	10 x 10.2	26	0.16	600	63	EDY108M6R3A9PAA
1500	10 x 10.2	26	0.16	600	95	EDY158M6R3A9PAA

SMD Surface mount lead terminals - Low Impedance and long life 105°C / 2000 h

10 Vdc Rated voltage - 13 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
22	4 x 5.4	19	1.93	90	3	EDY226M010A9BAA
33	4 x 5.4	19	1.93	90	3	EDY336M010A9BAA
33	5 x 5.4	19	1.0	160	3	EDY336M010A9DAA
100	6.3 x 5.4	19	0.52	190	10	EDY107M010A9GAA
150	6.3 x 7.7	19	0.34	240	15	EDY157M010A9HAA
220	6.3 x 7.7	19	0.34	280	22	EDY227M010A9HAA
220	8 x 10.2	19	0.26	300	22	EDY227M010A9MAA
330	8 x 10.2	19	0.16	600	33	EDY337M010A9MAA
470	8 x 10.2	19	0.16	600	47	EDY477M010A9MAA
1000	10 x 10.2	19	0.16	600	100	EDY108M010A9PAA

16 Vdc Rated voltage - 20 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
22	4 x 5.4	16	1.93	90	4	EDY226M016A9BAA
22	5 x 5.4	16	1.93	160	4	EDY226M016A9DAA
47	5 x 5.4	16	1.0	160	8	EDY476M016A9DAA
47	6.3 x 5.4	16	0.52	240	8	EDY476M016A9GAA
100	6.3 x 5.4	16	0.52	240	16	EDY107M016A9GAA
150	6.3 x 7.7	16	0.34	280	24	EDY157M016A9HAA
220	6.3 x 7.7	16	0.34	280	35	EDY227M016A9HAA
220	8 x 6.2	16	0.26	300	35	EDY227M016A9LAA
330	8 x 10.2	16	0.16	600	53	EDY337M016A9MAA
470	10 x 10.2	16	0.16	600	75	EDY477M016A9PAA
680	10 x 10.2	16	0.08	850	109	EDY687M016A9PAA

25 Vdc Rated voltage - 32 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tanδ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
10	4 x 5.4	14	1.93	90	3	EDY106M025A9BAA
22	5 x 5.4	14	1.0	160	6	EDY226M025A9DAA
33	5 x 5.4	14	1.0	160	8	EDY336M025A9DAA
33	6.3 x 5.4	14	0.52	240	8	EDY336M025A9GAA
47	6.3 x 5.4	14	0.52	240	12	EDY476M025A9GAA
68	6.3 x 5.4	14	0.52	240	17	EDY686M025A9GAA
100	6.3 x 7.7	14	0.34	280	25	EDY107M025A9HAA
100	8 x 6.2	14	0.26	300	25	EDY107M025A9LAA
150	8 x 10.2	14	0.16	600	38	EDY157M025A9MAA
220	8 x 10.2	14	0.16	600	55	EDY227M025A9MAA
330	10 x 10.2	14	0.16	600	83	EDY337M025A9PAA
470	10 x 10.2	14	0.08	850	118	EDY477M025A9PAA

35 Vdc Rated voltage - 44 Vdc Surge voltage						
Rated capacitance 120 Hz 20°C (μ F)	Case size DxL (mm)	D.F. 120 Hz 20°C (tan δ %)	Z 100kHz 25°C (Ω)	R.C. 100kHz 105°C (mA _{rms})	L.C. 20°C 2 min. (μ A)	Arcotronics P/N
4.7	4 x 5.4	12	1.93	90	3	EDY475M035A9BAA
10	4 x 5.4	12	1.93	90	4	EDY106M035A9BAA
10	5 x 5.4	12	1.0	160	4	EDY106M035A9DAA
22	5 x 5.4	12	1.0	160	8	EDY226M035A9DAA
33	6.3 x 5.4	12	0.52	240	12	EDY336M035A9GAA
47	6.3 x 5.4	12	0.52	240	16	EDY476M035A9GAA
68	6.3 x 7.7	12	0.34	280	24	EDY686M035A9HAA
100	6.3 x 7.7	12	0.34	280	35	EDY107M035A9HAA
100	8 x 10.2	12	0.16	600	35	EDY107M035A9MAA
150	8 x 10.2	12	0.16	600	53	EDY157M035A9MAA
220	10 x 10.2	12	0.16	600	77	EDY227M035A9PAA
330	10 x 10.2	12	0.08	850	116	EDY337M035A9PAA

SMD Surface mount lead terminals - Bi-polar 85°C / 1000 h

Description

Capacitors for high density printed circuit board.

Applications

Can be used with reversing polarity.

Features

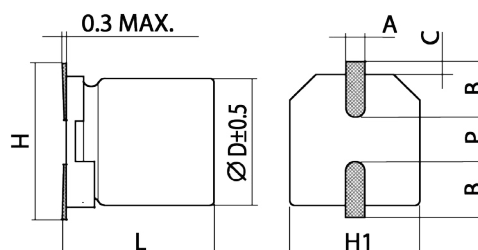
Low profile vertical chip

Marking

Series (R), Rated voltage (Vdc), Rated capacitance (μF)

Diagram of dimensions (Units=mm)

Ø D	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



Electrical characteristics

Rated voltage	6.3 to 50 Vdc
Operating temperature	-40 to 85°C
Capacitance range	0.22μF to 47μF
Capacitance tolerance	± 20% at 120Hz / 20°C
Endurance test	1000 hours (see conditions in Test method and performance)
Leakage current	I = 0.01 CV (μA) 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)

Impedance Z characteristics at 120 Hz

Rated Voltage (Vdc)	6.3	10	16	25	35	50
Z (-25°C) / Z (20°C)	4	3	2	2	2	2
Z (-40°C) / Z (20°C)	8	6	4	4	3	3

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

Frequency	60 Hz	120 Hz	1 kHz	10 kHz
Multiplier factors	0.85	1.00	1.10	1.20

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

Temperature	50°C	70°C	85°C
Multiplier factors	1.36	1.25	1.00

Technical data and ordering codes

6.3 Vdc Rated voltage - 8 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tgδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
22	5.0 x 5.4	52	29	3	EDN226M6R3A9DAA
33	6.3 x 5.4	52	43	3	EDN336M6R3A9GAA
47	6.3 x 5.4	52	46	3	EDN476M6R3A9GAA

10 Vdc Rated voltage - 13 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tgδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
10	4.0 x 5.4	40	25	3	EDN106M010A9BAA
22	6.3 x 5.4	40	39	3	EDN226M010A9GAA
33	6.3 x 5.4	40	43	3	EDN336M010A9GAA

SMD Surface mount lead terminals - Bi-polar 85°C / 1000 h

16 Vdc Rated voltage - 20 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tgδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
4.7	4.0 x 5.4	32	20	3	EDN475M016A9BAA
10	5.0 x 5.4	32	25	3	EDN106M016A9DAA
22	6.3 x 5.4	32	39	3	EDN226M016A9GAA

25 Vdc Rated voltage - 32 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tgδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
3.3	4.0 x 5.4	28	12	3	EDN335M025A9BAA
4.7	5.0 x 5.4	28	21	3	EDN475M025A9DAA
10	6.3 x 5.4	28	28	3	EDN106M025A9GAA

35 Vdc Rated voltage - 44 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tgδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
2.2	4.0 x 5.4	24	12	3	EDN225M035A9BAA
3.3	5.0 x 5.4	24	21	3	EDN335M035A9DAA
4.7	5.0 x 5.4	24	22	3	EDN475M035A9DAA
10	6.3 x 5.4	24	30	3	EDN106M035A9GAA

50 Vdc Rated voltage - 63 Vdc Surge voltage					
Rated capacitance 120 Hz 20°C (μF)	Case size DxL (mm)	D.F. 120 Hz 20°C (tgδ %)	R.C. 120 Hz 85°C (mA _{rms})	L.C. 20°C 2 min. (μA)	Arcotronics P/N
0.22	4.0 x 5.4	24	2	3	EDN224M050A9BAA
0.33	4.0 x 5.4	24	3	3	EDN334M050A9BAA
0.47	4.0 x 5.4	24	5	3	EDN474M050A9BAA
1	4.0 x 5.4	24	10	3	EDN105M050A9BAA
2.2	5.0 x 5.4	24	16	3	EDN225M050A9DAA
3.3	5.0 x 5.4	24	21	3	EDN335M050A9DAA
4.7	6.3 x 5.4	24	31	3	EDN475M050A9GAA