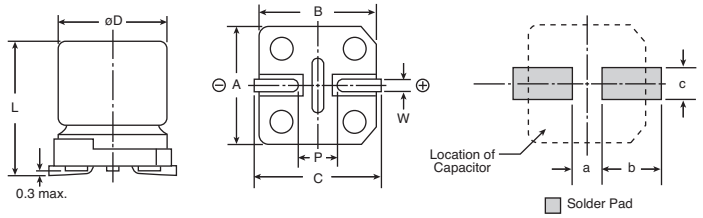
UNITED CHEMI-CON Aluminum Electrolytic Capacitors



Case and Solder Pad Dimensions for MKA Series

Case Code	øD ±0.5	L	A ±0.2	B ±0.2	C ±0.2	W	P	a	b	c
D55	ø4	5.2±0.3	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6
E55	ø5	5.2±0.3	5.3	5.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6
F55	ø6.3	5.2±0.3	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
F80	ø6.3	7.7±0.3	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
H63	ø8	6.3±0.5	8.3	8.3	9.0	0.5-0.8	2.3	2.3	4.5	1.6
H10	ø8	10±0.5	8.3	8.3	9.0	0.7-1.1	3.1	3.1	4.2	2.2
J10	ø10	10±0.5	10.3	10.3	11.0	0.7-1.1	4.5	4.5	4.4	2.2

Case and Solder Pad Dimensions for MV/MVK Series

Case Code	øD ±0.5	L	A ±0.2	B ±0.2	C ±0.2	W	P	a	b	c
B55	ø3	5.2±0.3	3.3	3.3	3.7	0.45-0.75	0.8	0.8	2.2	1.6
D55	ø4	5.2±0.3	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6
E55	ø5	5.2±0.3	5.3	6.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6
F55	ø6.3	5.2±0.3	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
F60	ø6.3	5.7±0.3	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
8x6	ø8	6.3±0.5	8.3	8.3	9.0	0.5-0.8	2.3	2.3	4.5	1.6
8x10	ø8	10±0.5	8.3	8.3	9.0	0.7-1.1	3.1	3.1	4.2	2.2
10x10	ø10	10±0.5	10.3	10.3	11.0	0.7-1.1	4.5	4.5	4.4	2.2

MKA SERIES SMD CAPACITORS

LEAD-FREE

RoHS Compliant

Specifications:

- Operating temperature range: -40°C to +105°C
- Voltage range: 6.3 to 50VDC
- Capacitance range: 0.1 to 1,000uF
- Capacitance tolerance: ± 20% at +20°C, 120Hz
- Rated lifetime: 1000-2000 hours depending on case size
- Leakage current: .01CV or 3μA, whichever is greater, after 2 minutes at +20°C

Features:

- Solvent proof
- Designed for lead free, high temperature reflow soldering

105°C SMD (Lead Free)

6.3 Volt

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D x L (mm)	Price Each 1	100	500	1000
661-MKA6.3V22RM	EMKA6R3ADA220MD55G	22	4 x 5.2	.16	.14	.13	.11
661-MKA6.3VC47RM	EMKA6R3ADA470ME55G	47	5 x 5.2	.18	.16	.15	.12
661-MKA6.3VC101M	EMKA6R3ADA101MF55G	100	6.3 x 5.2	.23	.20	.19	.15
661-MKA6.3VC331M	EMKA6R3ADA331MHA0G	330	8 x 10	.38	.34	.31	.26
661-MKA6.3VC102M	EMKA6R3ADA102MJA0G	1,000	10 x 10	.63	.56	.52	.42

10 Volt

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D x L (mm)	Price Each 1	100	500	1000
661-MKA10VC33RM	EMKA100ADA330ME55G	33	5 x 5.2	.18	.16	.15	.12
661-MKA10VC101M	EMKA100ADA101MF80G	100	6.3 x 7.7	.28	.25	.23	.19
661-MKA10VC221M	EMKA100ADA221MHA0G	220	8 x 10	.49	.43	.39	.32

16 Volt

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D x L (mm)	Price Each 1	100	500	1000
661-MKA16VC10RM	EMKA160ADA100MD55G	10	4 x 5.2	.38	.34	.31	.26
661-MKA16VC22RM	EMKA160ADA220ME55G	22	5 x 5.2	.16	.14	.13	.11
661-MKA16VC47RM	EMKA160ADA470MF55G	47	6.3 x 5.2	.32	.28	.26	.23
661-MKA16VC471M	EMKA160ADA471MJA0G	470	10 x 10	.63	.56	.52	.42

25 Volt

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D x L (mm)	Price Each 1	100	500	1000
661-MKA25VC33RM	EMKA250ADA330MF55G	33	6.3 x 5.2	.23	.20	.19	.15
661-MKA25VC47RM	EMKA250ADA470MF80G	47	6.3 x 7.7	.28	.25	.23	.19
661-MKA25VC101M	EMKA250ADA101MHA0G	100	8 x 10	.38	.34	.31	.26
661-MKA25VC331M	EMKA250ADA331MJA0G	330	10 x 10	.63	.56	.52	.42

35 Volt

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D x L (mm)	Price Each 1	100	500	1000
661-MKA35VC4R7M	EMKA350ADA4R7MD55G	4.7	4 x 5.2	.16	.14	.13	.11
661-MKA35VC10RM	EMKA350ADA100ME55G	10	5 x 5.2	.18	.16	.15	.12
661-MKA35VC22RM	EMKA350ADA220MF55G	22	6.3 x 5.2	.26	.22	.21	.17
661-MKA35VC33RM	EMKA350ADA330MF80G	33	6.3 x 7.7	.28	.25	.23	.19
661-MKA35VC221M	EMKA350ADA221MJA0G	220	10 x 10	.63	.56	.52	.42

50 Volt

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D x L (mm)	Price Each 1	100	500	1000
661-MKA50VCR10M	EMKA500ADAR10MD55G	0.1	4 x 5.2	.21	.18	.17	.14
661-MKA50VCR22M	EMKA500ADAR22MD55G	0.22	4 x 5.2	.16	.14	.13	.11
661-MKA50VCR33M	EMKA500ADAR33MD55G	0.33	4 x 5.2	.16	.14	.13	.11
661-MKA50VCR47M	EMKA500ADAR47MD55G	0.47	4 x 5.2	.16	.14	.13	.11
661-MKA50VC1R0M	EMKA500ADA1R0MD55G	1	4 x 5.2	.16	.14	.13	.11
661-MKA50VC2R2M	EMKA500ADA2R2MD55G	2.2	4 x 5.2	.16	.14	.13	.11
661-MKA50VC3R3M	EMKA500ADA3R3MD55G	3.3	4 x 5.2	.16	.14	.13	.11
661-MKA50VC4R7M	EMKA500ADA4R7ME55G	4.7	5 x 5.2	.18	.16	.15	.12
661-MKA50VC10RM	EMKA500ADA100MF55G	10	6.3 x 5.2	.23	.20	.19	.15
661-MKA50VC22RM	EMKA500ADA220MF80G	22	6.3 x 7.7	.28	.25	.23	.19
661-MKA50VC33RM	EMKA500ADA330MHA0G	33	8 x 10	.38	.34	.31	.26
661-MKA50VC101M	EMKA500ADA101MJA0G	100	10 x 10	.63	.56	.52	.42

MV/MVK SERIES SMD CAPACITORS

RoHS Compliant

The MV and MVK series are the standard vertical chip capacitors designed for reflow soldering. The maximum height for most of these capacitors is 5.5mm, making them ideal for use in low profile situations.

Specifications:

- Operating temperature range: -40°C to +85°C for MV Series, -40°C to +105°C for MVK Series
- Voltage range: 4 to 63VDC for MV Series, 6.3 to 50VDC for MVK Series

Features:

- Capacitance range: 0.1 to 1,000uF
- Capacitance tolerance: ± 20% at +20°C, 120Hz
- Rated Lifetime: 1000-2000 hours depending on case size

MV 85° SMD Series

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D x L (mm)	Price Each 1	100	500	1000
6.3 Volts							
661-MV6.3VC101MF55TP	EMV-6R3ADA101MF55G	100	6.3 x 5.2	.41	.29	.20	.17
10 Volts							
661-MV10VC101M	EMV-100ADA101MF60G	100	6.3 x 5.7	.30	.21	.15	.12
16 Volts							
661-MV16VC10RM	EMV-160ADA100MD60G	10	4 x 5.2	.18	.16	.13	.12
661-MV16VC22RM	EMV-160ADA220ME55G	22	5 x 5.2	.51	.35	.25	.21
661-MV16VC47RMF55TP	EMV-160ADA470MF55G	47	6.3 x 5.2	.21	.15	.11	.09
661-MV16VC68RM	EMV-160ADA680MF60G	68	6.3 x 5.7	.61	.42	.30	.24
661-MV16VC331M8X10TP	EMV-160ADA331MHA0G	330	8 x 10	1.25	.88	.63	.52
661-MV16VC471M	EMV-160ADA471MJA0G	470	10 x 10	1.32	.92	.66	.54
25 Volts							
661-MV25VC4R7MB55TP	EMV-250ADA4R7MB55G	4.7	3 x 5.2	.17	.11	.08	.07
661-MV25VC22RM	EMV-250ADA220MF55G	22	6.3 x 5.2	.25	.18	.13	.11
661-MV25VC33RM	EMV-250ADA330MF55G	33	6.3 x 5.2	.24	.17	.12	.10
661-MV25VC47RM	EMV-250ADA470MF60G	47	6.3 x 5.7	.62	.43	.31	.25
661-MV25VC101M	EMV-250ADA101MH63G	100	8 x 6	1.07	.75	.54	.44
35 Volts							
661-MV35VC47RM	EMV-350ADA470MH63G	47	8 x 6	1.06	.74	.53	.43
50 Volts							
661-MV50VC1R0M	EMV-500ADA1R0MD55G	1	3 x 5.2	.21	.17	.15	.11
661-MV50VC2R2M	EMV-500ADA2R2MD55G	2.2	4 x 5.2	.50	.35	.25	.21
661-MV50VC101M	EMV-500ADA101MJA0G	100	10 x 10	1.32	.92	.66	.54

MVK 105° SMD Series

For quantities 2000 and up, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part Number	Value (μF)	Case Size D X L (mm)	Price Each 1	100	500	1000
6.3 Volts							
661-MVK6.3VC331M	EMVK6R3ADA331MHA0G	330	8 x 10	.34	.26	.198	.192
10 Volt							
661-MVK10VC33RME55TP	EMVK100ADA330ME55G	33	5 x 5.2	.20	.14	.13	.12
661-MVK10VC101M	EMVK100ADA101MH63G	100	8 x 6	.30	.22	.21	.139
16 Volts							
661-MVK16VC10RMD55TP	EMVK160ADA100MD55G	10	4 x 5.2	.20	.13	.12	.11
661-MVK16VC47RMF55TP	EMVK160ADA470MF55G	47	6.3 x 5.2	.20	.15	.14	.106
25 Volts							
661-MVK25VC33RMF55TP	EMVK250ADA330MF55G	33	6.3 x 5.2	.20	.15	.14	.106
661-MVK25VC47RM	EMVK250ADA470MH63G	47	8 x 6.3	.30	.22	.21	.139
661-MVK25VC101M	EMVK250ADA101MHA0G	100	8 x 10	.34	.27	.20	.17
661-MVK25VC331M	EMVK250ADA331MJA0G	330	10 x 10	.42	.33	.248	.21
35 Volts							
661-MVK35VC22RMF60TP	EMVK350ARB220MF60G	22	6.3 x 5.7	.32	.22	.15	.13
661-MVK35VC33RM	EMVK350ADA330MH63G	33	8 x 6	.30	.243	.22	.137
661-MVK35VC47RM	EMVK350ADA470MHA0G	47	8 x 10	.33	.26	.24	.22
661-MVK35VC101MTP	EMVK350ADA101MJA0G	100	10 x 10	.40	.31	.29	.27
661-MVK35VC221MTP	EMVK350ADA221MJA0G	220	10 x 10	.42	.33	.248	.21
50 Volts							
661-MVK50VC1R0M	EMVK500ADA1R0MD55G	1	4 x 5.2	.15	.12	.11	.10
661-MVK50VC2R2M	EMVK500ADA2R2MD55G	2.2	4 x 5.2	.15	.12	.11	.10
661-MVK50VC3R3M	EMVK500ADA3R3MD55G	3.3	4 x 5.2	.15	.12	.11	.10
661-MVK50VC10RM	EMVK500ADA100MF55G	10	6.3 x 5.2	.20	.161	.15	.104
661-MVK50VC101M10X10	EMVK500ADA101MJA0G	100	10 x 10	.42	.33	.246	.209

© Copyright 2009 Mouser Electronics

© Copyright 2009 Mouser Electronics