

# UCC Alchip™ MVH 125°C SMD Aluminum Series

RoHS Compliant This product is RoHS compliant.



## MVH SERIES ALUMINUM CAPACITORS

The MVH series is suitable for automotive and other high temperature applications.

### Specifications:

- Operating Temperature: -40°C to +125°C
- Voltage Range: 10VDC to 450VDC
- Capacitance Range: 3.3µF to 4700µF
- Capacitance Tolerance: ±20%
- Rated Lifetime:
  - F60 to H63 (10~100VDC): 1000 hrs. @ 125°C
  - HA0 to JA0 (10~100VDC): 2000 hrs. @ 125°C
  - KE0 to MN0 (10~100VDC): 5000 hrs. @ 125°C
  - KE0 to MN0 (160~450VDC): 2000 hrs. @ 125°C

### Features:

- High heat resistance to reflow soldering
- Lead free design
- Solvent proof (10V-50V)



Size code	D	L	A	B	C	W	P
F60	6.3	5.7	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
H63	8	6.3	8.3	8.3	9.0	0.5 to 0.8	2.3
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 to 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 to 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 to 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 to 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 to 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 to 1.3	6.5

Aluminum Caps, SMD

UCC

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	United Chemi-Con Part No.	Value (µF)	Case Code	Max ESR (mΩ) @ 100kHz	Price Each				
					20°C		-40°C		
					1	50	1	50	
<b>10 Volts</b>									
661-MVH10V101M	EMVH100ADA101MH63G	100	H63	2.3	46.0	.78	.52		
661-MVH10V221M	EMVH100ADA221MHA0G	220	HA0	1.0	20.0	.72	.64		
661-MVH10V331M	EMVH100ADA331MJA0G	330	JA0	0.70	13.4	.91	.81		
661-MVH10V102M	EMVH100ARA102MKE0S	1000	KE0	0.14	2.1	1.82	1.32		
661-MVH10V222M	EMVH100GDA222MLH0S	2200	LH0	0.1	1.5	3.80	3.35		
<b>16 Volts</b>									
661-MVH16V470M	EMVH160ADA470MF60G	47	F60	3.3	66.0	.56	.37		
661-MVH16V471M	EMVH160ARA471MKE0S	470	KE0	0.14	2.1	1.49	1.25		
661-MVH16V681M	EMVH160ARA681MKE0S	680	KE0	0.14	2.1	1.83	1.30		
661-MVH16V102M	EMVH160GDA102MMH0S	1000	MH0	0.1	1.5	4.02	3.56		
661-MVH16V222M	EMVH160GDA222MMH0S	2200	MH0	0.1	1.5	4.11	3.63		
<b>25 Volts</b>									
661-MVH25V330M	EMVH250ADA330MF60G	33	F60	3.3	66.0	.56	.37		
661-MVH25V470M	EMVH250ADA470MF80G	47	F80	2.3	46.0	.68	.45		
661-MVH25V470MH	EMVH250ADA470MH63G	47	H63	2.3	46.0	.78	.52		
661-MVH25V101M	EMVH250ADA101MHA0G	100	HA0	1.0	20.0	1.00	.68		
661-EMVH250ADA221M	EMVH250ADA221MHA0G	220	HA0	0.40	6.0	1.21	0.83		
661-MVH25V221M	EMVH250ADA221MJA0G	220	JA0	0.70	13.4	1.00	.68		
661-MVH25V331M	EMVH250ARA331MKE0S	330	KE0	0.14	2.1	1.82	1.32		
661-EMVH250ADA331M	EMVH250ADA331MJA0G	330	JA0	0.30	4.5	1.68	1.11		
661-MVH25V471M	EMVH250ARA471MKE0S	470	KE0	0.14	2.1	1.83	1.30		
661-MVH25V471ML	EMVH250GDA471MLH0S	470	LH0	0.1	1.5	3.68	2.91		
661-MVH25V681M	EMVH250GDA681MLH0S	680	LH0	0.1	1.5	3.73	2.96		
661-MVH25V681MH	EMVH250GDA681MMH0S	680	MH0	0.1	1.5	4.04	2.95		
661-MVH25V102M	EMVH250GDA102MMN0S	1000	MN0	0.058	0.87	4.10	2.45		
<b>35 Volts</b>									
661-MVH35V100M	EMVH350ADA100MF60G	10	F60	3.3	66.0	.56	.37		
661-MVH35V220M	EMVH350ADA220MF60G	22	F60	3.3	66.0	.56	.37		
661-MVH35V330M	EMVH350ADA330MF80G	33	F80	2.3	46.0	.69	.45		
661-MVH35V330MH	EMVH350ADA330MH63G	33	H63	2.3	46.0	.78	.52		
661-MVH35V470M	EMVH350ADA470MHA0G	47	HA0	1.0	20.0	1.00	.67		
661-EMVH350ADA101M	EMVH350ADA101MHA0G	100	HA0	0.40	4.5	1.21	0.83		
661-MVH35V101M	EMVH350ADA101MJA0G	100	JA0	0.70	13.4	1.00	.69		
661-MVH35V331M	EMVH350ARA331MKE0S	330	KE0	0.14	2.1	1.83	1.30		
661-MVH35V331ML	EMVH350GDA331MLH0S	330	LH0	0.1	1.5	3.74	2.97		
661-MVH35V471M	EMVH350ARA471MKG5S	470	KG5	0.11	1.5	2.38	1.75		
661-MVH35V471ML	EMVH350GDA471MLH0S	470	LH0	0.1	1.5	3.73	2.96		
661-MVH35V681M	EMVH350GDA681MMH0S	680	MH0	0.1	1.5	4.07	3.23		
<b>50 Volts</b>									
661-MVH50V100M	EMVH500ADA100MF60G	10	F60	3.3	66.0	.72	.47		
661-MVH50V220M	EMVH500ADA220MF80G	22	F80	2.3	46.0	.68	.42		
661-MVH50V220MH	EMVH500ADA220MH63G	22	H63	2.3	46.0	.77	.52		
661-MVH50V330M	EMVH500ADA330MHA0G	33	HA0	1.0	20.0	.99	.67		
661-MVH50V470M	EMVH500ADA470MJA0G	47	JA0	0.70	13.4	.98	.68		

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MOUSER STOCK NO.	United Chemi-Con Part No.	Value (µF)	Case Code	Max ESR (mΩ) @ 100kHz	Price Each				
					20°C		-40°C		
					1	50	1	50	
<b>50 Volts (Cont.)</b>									
661-MVH50V101M	EMVH500ARA101MKE0S	100	KE0	0.23	3.5	1.75	1.28		
661-MVH50V221M	EMVH500ARA221MKE0S	220	KE0	0.23	3.5	1.80	1.32		
661-MVH50V221ML	EMVH500GDA221MLH0S	220	LH0	0.15	2.3	3.66	2.89		
661-MVH50V331M	EMVH500ARA331MKG5S	330	KG5	0.18	2.7	2.31	1.69		
661-MVH50V331ML	EMVH500GDA331MLH0S	330	LH0	0.15	2.3	3.68	2.90		
661-MVH50V471M	EMVH500GDA471MMH0S	470	MH0	0.15	2.3	4.02	3.56		
<b>63 Volts</b>									
661-MVH63V100M	EMVH630ADA100MF80G	10	F80	2.3	115.0	.61	.41		
661-MVH63V100MF	EMVH630ADA100MH63G	10	H63	2.3	115.0	.72	.48		
661-MVH63V220M	EMVH630ADA220MHA0G	22	HA0	1.0	50.0	.86	.58		
661-MVH63V330M	EMVH630ADA330MJA0G	33	JA0	0.70	35.0	.82	.57		
661-MVH63V101M	EMVH630ARA101MKE0S	100	KE0	0.25	12.5	1.59	1.14		
661-MVH63V221M	EMVH630ARA221MKG5S	220	KG5	0.20	10.0	2.10	1.54		
661-MVH63V331M	EMVH630GDA331MLH0S	330	LH0	0.18	9.0	3.51	2.77		
661-MVH63V471M	EMVH630GDA471MLN0S	470	LN0	0.11	5.5	5.25	3.00		
<b>100 Volts</b>									
661-MVH100V100M	EMVH101ADA100MHA0G	10	HA0	1.0	50.0	.86	.58		
661-MVH100V220M	EMVH101ADA220MJA0G	22	JA0	0.70	35.0	.83	.57		
661-MVH100V470M	EMVH101ARA470MKE0S	47	KE0	0.33	16.5	1.67	1.22		
661-MVH100V680M	EMVH101ARA680MKG5S	68	KG5	0.26	13.0	2.18	1.60		
661-MVH100V101M	EMVH101GDA101MLH0S	100	LH0	0.24	12.0	3.68	2.91		
661-MVH100M221M	EMVH101GDA221MMN0S	220	MN0	0.16	8.0	4.14	2.47		
<b>160 Volts</b>									
661-MVH160V100M	EMVH161ARA100MKE0S	10	KE0	-	-	2.29	1.96		
661-MVH160V330M	EMVH161GDA330MMH0S	33	MH0	-	-	2.85	2.71		
<b>200 Volts</b>									
661-MVH200V100M	EMVH201ARA100MKE0S	10	KE0	-	-	1.52	1.44		
661-MVH200V330M	EMVH201GDA330MLN0S	33	LN0	-	-	3.00	2.86		
661-MVH200V470M	EMVH201GDA470MMN0S	47	MN0	-	-	4.02	3.83		
<b>250 Volts</b>									
661-MVH250V100M	EMVH251ARA100MKG5S	10	KG5	-	-	1.59	1.52		
661-MVH250V220MH	EMVH251GDA220MMH0S	22	MH0	-	-	3.10	2.95		
<b>400 Volts</b>									
661-MVH400V4R7M	EMVH401ARA4R7MKE0S	4.7	KE0	-	-	1.52	1.44		
661-MVH400V6R8M	EMVH401GDA6R8MLH0S	6.8	LH0	-	-	4.81	4.26		
661-MVH400V100M	EMVH401GDA100MLN0S	10	LN0	-	-	3.68	2.90		
<b>450 Volts</b>									
661-MVH450V3R3M	EMVH451ARA3R3MKG5S	3.3	KG5	-	-	1.77	1.69		
<b>500 Volts</b>									
661-EMVH500ADA470M	EMVH500ADA470MHA0G	470	HA0	0.70	11.0	1.20	0.82		
661-MVH50V221ML	EMVH500GDA221MLH0S	221	LH0	0.15	2.3	3.66	2.89		
661-EMVH500GTR471MMH	EMVH500GTR471MMH0S	470	MH0	0.15	2.3	4.68	4.02		
<b>630 Volts</b>									
661-EMVH630GTR471MLN	EMVH630GTR471MLN0S	470	LN0	0.11	5.5	6.09	5.22		