

UNITED CHEMI-CON MVH 125°C SMD Aluminum Series



RoHS Compliant This product is RoHS compliant.

UCC ALUMINUM SERIES (LEAD FREE/ROHS COMPLIANT)

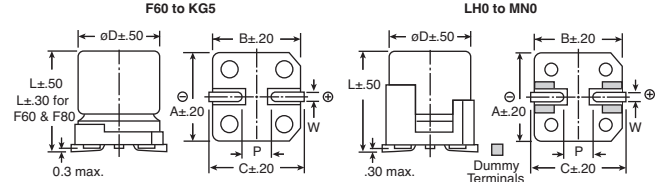
The MVH series is suitable for automotive and other high temperature applications.

Specifications:

- Operating Temperature: -40°C to +125°C
- Voltage Range: 10 to 450VDC
- Capacitance Range: 3.3 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 (10-50V)



MVH Series

MOUSER STOCK NO.	United Chemi-Con Part No.	Value (µF)	Case Code	Case Dimensions: mm							Max ESR (MΩ) @ 100kHz		Price Each		
				oD	L	A	B	C	W	P	20°C	-40°C	1	50	100
10 Volts															
661-MVH10V101M	EMVH100ADA101MH63G	100	H63	8	6.3	8.3	8.30	9.0	0.5-0.8	2.3	0.90	14.0	.33	.29	.26
661-MVH10V221M	EMVH100ADA221MHA0G	220	HA0	8	10.0	8.3	8.3	9.0	0.7-1.1	3.1	0.40	6.0	.57	.504	.438
661-MVH10V331M	EMVH100ADA331MJA0G	330	JA0	10	10.0	10.3	10.3	11.0	0.7-1.1	4.5	0.30	4.5	.72	.646	.577
661-MVH10V102M	EMVH100ARA102MKE0S	1000	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.14	2.1	1.64	1.44	1.28
661-MVH10V222M	EMVH100GDA222MLH0S	2200	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.1	1.5	3.80	3.35	2.98
661-MVH10V222MH	EMVH100GDA222MMH0S	2200	MH0	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	0.1	1.5	4.05	3.56	3.16
661-MVH10V332M	EMVH100GDA332MMH0S	3300	MH0	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	0.1	1.5	4.17	3.69	3.27
661-MVH10V472M	EMVH100GDA472MMN0S	4700	MN0	18	21.5	19.0	19.0	20.0	1.0-1.3	6.5	0.058	0.87	4.83	4.26	3.77
16 Volts															
661-MVH16V470M	EMVH160ADA470MF60G	47	F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.6	24.0	.24	.21	.19
661-MVH16V471M	EMVH160ARA471MKE0S	470	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.14	2.1	1.23	1.08	.96
661-MVH16V681M	EMVH160ARA681MKE0S	680	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.14	2.1	1.65	1.45	1.29
661-MVH16V681ML	EMVH160GDA681MLH0S	680	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.1	1.5	3.70	3.26	2.89
661-MVH16V102M	EMVH160GDA102MMH0S	1000	MH0	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	0.1	1.5	3.34	2.95	2.61
661-MVH16V222M	EMVH160GDA222MMH0S	2200	MH0	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	0.1	1.5	3.39	2.99	2.65
25 Volts															
661-MVH25V330M	EMVH250ADA330MF60G	33	F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.6	24.0	.30	.21	.19
661-MVH25V470M	EMVH250ADA470MF80G	47	F80	6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9	0.90	14.0	.29	.26	.23
661-MVH25V470MH	EMVH250ADA470MH63G	47	H63	8	6.3	8.3	8.3	9.0	0.5-0.8	2.3	0.90	14.0	.50	.381	.342
661-MVH25V101M	EMVH250ADA101MHA0G	100	HA0	8	10.0	8.3	8.3	9.0	0.7-1.1	3.1	0.40	6.0	.43	.38	.34
661-MVH25V221M	EMVH250ADA221MJA0G	220	JA0	10	10.0	10.3	10.3	11.0	0.7-1.1	4.5	0.30	4.5	.80	.663	.576
661-MVH25V331M	EMVH250ARA331MKE0S	330	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.14	2.1	1.30	1.09	.819
661-MVH25V471M	EMVH250ARA471MKE0S	470	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.14	2.1	1.65	1.45	.825
661-MVH25V471ML	EMVH250GDA471MLH0S	470	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.1	1.5	3.70	2.73	1.91
661-MVH25V681M	EMVH250GDA681MLH0S	680	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.1	1.5	3.73	2.73	1.91
661-MVH25V681MH	EMVH250GDA681MMH0S	680	MH0	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	0.1	1.5	4.04	2.95	2.07
661-MVH25V102M	EMVH250GDA102MMN0S	1000	MN0	18	21.5	19.0	19.0	20.0	1.0-1.3	6.5	0.058	0.87	4.10	2.45	1.82
35 Volts															
661-MVH35V100M	EMVH350ADA100MF60G	10	F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.6	24.0	.30	.21	.19
661-MVH35V220M	EMVH350ADA220MF60G	22	F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.6	24.0	.30	.21	.19
661-MVH35V330M	EMVH350ADA330MF80G	33	F80	6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9	0.90	14.0	.50	.343	.304
661-MVH35V330MH	EMVH350ADA330MH63G	33	H63	8	6.3	8.3	8.3	9.0	0.5-0.8	2.3	0.90	14.0	.50	.381	.342
661-MVH35V470M	EMVH350ADA470MHA0G	47	HA0	8	10.0	8.3	8.3	9.0	0.7-1.1	3.1	0.40	6.0	.50	.38	.33
661-MVH35V101M	EMVH350ADA101MJA0G	100	JA0	10	10.0	10.3	10.3	11.0	0.7-1.1	4.5	0.30	4.5	.60	.48	.43
661-MVH35V331M	EMVH350ARA331MKE0S	330	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.14	2.1	1.65	1.45	.825
661-MVH35V331ML	EMVH350GDA331MLH0S	330	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.1	1.5	3.74	2.74	1.91
661-MVH35V471M	EMVH350ARA471MKG5S	470	KG5	12.5	16.0	13.0	13.0	13.7	1.0-1.3	4.2	0.11	1.5	1.62	1.43	1.07
661-MVH35V471ML	EMVH350GDA471MLH0S	470	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.1	1.5	3.73	2.75	1.92
661-MVH35V681M	EMVH350GDA681MMH0S	680	MH0	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	0.1	1.5	4.07	2.98	2.08
50 Volts															
661-MVH50V100M	EMVH500ADA100MF60G	10	F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	2.8	42.0	.30	.21	.18
661-MVH50V220M	EMVH500ADA220MF80G	22	F80	6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9	2.0	30.0	.35	.26	.23
661-MVH50V220MH	EMVH500ADA220MH63G	22	H63	8	6.3	8.3	8.3	9.0	0.5-0.8	2.3	1.6	30.0	.33	.29	.26
661-MVH50V330M	EMVH500ADA330MHA0G	33	HA0	8	10.0	8.3	8.3	9.0	0.7-1.1	3.1	0.70	11.0	.60	.492	.439
661-MVH50V470M	EMVH500ADA470MJA0G	47	JA0	10	10.0	10.3	10.3	11.0	0.7-1.1	4.5	0.50	7.5	.60	.47	.42
661-MVH50V101M	EMVH500ARA101MKE0S	100	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.23	3.5	1.30	1.05	.789
661-MVH50V221M	EMVH500ARA221MKE0S	220	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.23	3.5	1.23	1.08	.812
661-MVH50V221ML	EMVH500GDA221MLH0S	220	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.15	2.3	3.64	2.67	1.87
661-MVH50V331M	EMVH500ARA331MKG5S	330	KG5	12.5	16.0	13.0	13.0	13.7	1.0-1.3	4.2	0.18	2.7	1.57	1.39	1.03
661-MVH50V331ML	EMVH500GDA331MLH0S	330	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.15	2.3	3.05	2.69	1.88
661-MVH50V471M	EMVH500GDA471MMH0S	470	MH0	18	16.5	19.0	19.0	20.0	1.0-1.3	6.5	0.15	2.3	3.30	2.92	2.04
63 Volts															
661-MVH63V100M	EMVH630ADA100MF80G	10	F80	6.3	7.7	6.6	6.6	7.2	0.5-0.8	1.9	2.0	100	.26	.23	.20
661-MVH63V100MF	EMVH630ADA100MH63G	10	H63	8	6.3	8.3	8.3	9.0	0.5-0.8	2.3	2.0	110	.40	.27	.24
661-MVH63V220M	EMVH630ADA220MHA0G	22	HA0	8	10.0	8.3	8.3	9.0	0.7-1.1	3.1	0.70	35.0	.47	.408	.37
661-MVH63V330M	EMVH630ADA330MJA0G	33	JA0	10	10.0	10.3	10.3	11.0	0.7-1.1	4.5	0.50	25.0	.50	.40	.35
661-MVH63V101M	EMVH630ARA101MKE0S	100	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.25	12.5	1.20	.96	.717
661-MVH63V221M	EMVH630ARA221MKG5S	220	KG5	12.5	16.0	13.0	13.0	13.7	1.0-1.3	4.2	0.20	10.0	1.43	1.26	.945
661-MVH63V331M	EMVH630GDA331MLH0S	330	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.18	9.0	2.92	2.57	1.80
661-MVH63V471M	EMVH630GDA471MLN0S	470	LN0	16	21.5	17.0	17.0	18.0	1.0-1.3	6.5	0.11	5.5	3.97	2.32	1.74
100 Volts															
661-MVH100V100M	EMVH101ADA100MHA0G	10	HA0	8	10.0	8.3	8.3	9.0	0.7-1.1	3.1	0.75	50.0	.37	.32	.29
661-MVH100V220M	EMVH101ADA220MJA0G	22	JA0	10	10.0	10.3	10.3	11.0	0.7-1.1	4.5	0.55	35.0	.50	.40	.35
661-MVH100V470M	EMVH101ARA470MKE0S	47	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	0.33	16.5	1.20	1.01	.753
661-MVH100V680M	EMVH101ARA680MKG5S	68	KG5	12.5	16.0	13.0	13.0	13.7	1.0-1.3	4.2	0.26	13.0	1.95	1.43	.981
661-MVH100V101M	EMVH101GDA101MLH0S	100	LH0	16	16.5	17.0	17.0	18.0	1.0-1.3	6.5	0.24	12.0	3.68	3.26	1.88
661-MVH100M221M	EMVH101GDA221MMN0S	220	MN0	18	21.5	19.0	19.0	20.0	1.0-1.3	6.5	0.16	8.0	4.14	2.47	1.84
160 Volts															
661-MVH160V100M	EMVH161ARA100MKE0S	10	KE0	12.5	13.5	13.0	13.0	13.7	1.0-1.3	4.2	-	-	1.55	1.36	1.22