MVI

Longer life

MVE

CHEMI-CON

Alchip[™]-**MVE**Series

● Endurance : 1,000 to 2,000 hours at 105°C

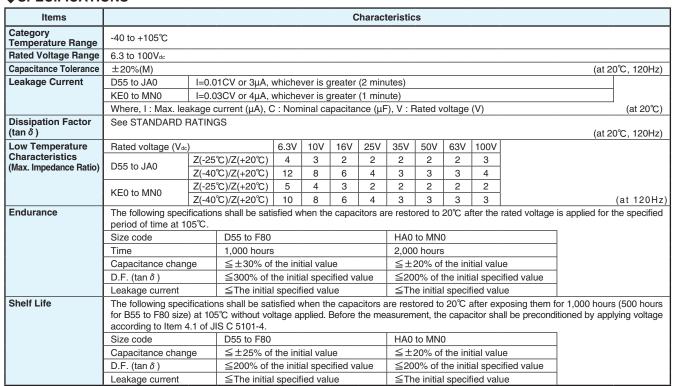
• Case size range : ϕ 4×5.2L to ϕ 18×21.5L

Solvent resistant type except 100Vdc (see PRECAUTIONS AND GUIDELINES)

RoHS2 Compliant

• AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

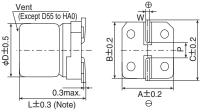
SPECIFICATIONS



◆DIMENSIONS [mm]

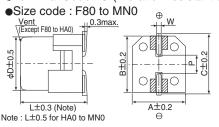
●Terminal Code : A

Size code : D55 to MN0



Note: L±0.5 for HA0 to MN0

●Terminal Code : G (Vibration resistant structure)



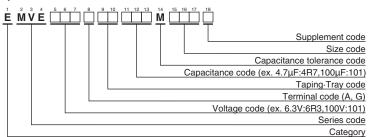
	:	Dummy	terminals
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Size code	D	L	Α	В	С	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 to 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	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
MHO	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

◆MARKING



◆PART NUMBERING SYSTEM



◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Size code	Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
	1.0	1.00	1.50	1.75	1.80
D55 to JA0	2.2 to 10	1.00	1.30	1.40	1.50
	22 to 1,500	1.00	1.05	1.08	1.08
	47, 68	1.00	1.50	1.75	1.80
KE0 to MN0	100 to 1,000	1.00	1.30	1.40	1.50
	2,200 to 6,800	1.00	1.05	1.08	1.08

The deterioration of aluminum electrolytic capacitors accelerates their life due to the internal heating produced by ripple current. For details, refer to Section "5-3 Ripple Current Effect on Lifetime" in the catalog, Technical Note.

Please refer to "Product code guide (surface mount type)"



Alchip™-**WVE**Series

STANDARD RATINGS

WV (V _{dc})	Cap (µF)	Size code	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (μF)	Size code	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.	
	22	D55	0.30	22	EMVE6R3ARA220MD55G		4.7	D55	0.14	16	EMVE350ARA4R7MD55G	
	33	E55	0.30	34	EMVE6R3ARA330ME55G		10	E55	0.14	27	EMVE350ARA100ME55G	
6.3	47	E55	0.30	38	EMVE6R3ARA470ME55G		22	F55	0.14	44	EMVE350ARA220MF55G	
	100	F55	0.30	69	EMVE6R3ARA101MF55G		47	F80	0.16	80	EMVE350 RA470MF80G	
	220	F80	0.45	120	EMVE6R3 RA221MF80G		100	F80	0.16	100	EMVE350 RA101MF80G	
	330	HA0	0.40	290	EMVE6R3 RA331MHA0G		150	HA0	0.16	260	EMVE350 RA151MHA0G	
	470	HA0	0.45	320	EMVE6R3 RA471MHA0G	35	220	JA0	0.16	375	EMVE350 RA221MJA0G	
	680	HA0	0.45	340	EMVE6R3 RA681MHA0G		330	JA0	0.16	450	EMVE350 RA331MJA0G	
	1,000	JA0	0.40	410	EMVE6R3 RA102MJA0G		470	KE0	0.22	520	EMVE350 RA471MKE0S	
	1,500	JA0	0.45	550	EMVE6R3 RA152MJA0G		470	LH0	0.22	650	EMVE350 RA471MLH0S	
	2,200	KE0	0.40	680	EMVE6R3 RA222MKE0S		1,000	LH0	0.22	750	EMVE350 RA102MLH0S	
	2,200	LH0 KG5	0.40	840 850	EMVE6R3 RA222MLH0S		1,000 2,200	MH0 MN0	0.22	1,000 1,450	EMVE350 RA102MMH0S	
	3,300 3,300	MH0	0.42	1,000	EMVE6R3□RA332MKG5S EMVE6R3□RA332MMH0S		1.0	D55	0.24	8.0	EMVE350 RA222MMN0S EMVE500ARA1R0MD55G	
	4,700	LN0	0.42	1,200	EMVE6R3 RA472MLN0S		2.2	D55	0.12	12	EMVE500ARA2R2MD55G	
	4,700	MH0	0.44	1,200	EMVE6R3 RA472MMH0S		3.3	D55	0.12	15	EMVE500ARA3R3MD55G	
	6,800	LN0	0.48	1,200	EMVE6R3 RA682MLN0S		4.7	E55	0.12	20	EMVE500ARA4R7ME55G	
	6,800	MN0	0.48	1,350	EMVE6R3 RA682MMN0S		10	F55	0.12	32	EMVE500ARA100MF55G	
	22	E55	0.24	30	EMVE100ARA220ME55G		33	F80	0.14	65	EMVE500 RA330MF80G	
	33	E55	0.24	34	EMVE100ARA330ME55G		47	F80	0.14	80	EMVE500 RA470MF80G	
10	47	F55	0.24	48	EMVE100ARA470MF55G	50	100	HA0	0.14	230	EMVE500 RA101MHA0G	
	100	F55	0.30	69	EMVE100ARA101MF55G		220	JA0	0.14	375	EMVE500□RA221MJA0G	
	150	F80	0.35	100	EMVE100□RA151MF80G		330	KE0	0.18	500	EMVE500 RA331MKE0S	
	220	F80	0.35	120	EMVE100□RA221MF80G		330	LH0	0.18	600	EMVE500□RA331MLH0S	
	330	HA0	0.35	290	EMVE100□RA331MHA0G		470	LH0	0.18	700	EMVE500 RA471MLH0S	
	470	HA0	0.35	320	EMVE100□RA471MHA0G		470	MH0	0.18	750	EMVE500 RA471MMH0S	
	1,000	JA0	0.35	410	EMVE100□RA102MJA0G		1,000	MN0	0.18	1,200	EMVE500 RA102MMN0S	
	2,200	KG5	0.36	750	EMVE100□RA222MKG5S		1.0	D55	0.12		EMVE630ARA1R0MD55G	
	2,200	LH0	0.36	850	EMVE100 RA222MLH0S		2.2	D55	0.12	12	EMVE630ARA2R2MD55G	
	3,300	LH0	0.38	1,000	EMVE100 RA332MLH0S		3.3	E55	0.12	17	EMVE630ARA3R3ME55G	
	3,300	MH0	0.38	1,100	EMVE100 RA332MMH0S		4.7	F55	0.12	22	EMVE630ARA4R7MF55G	
	4,700	LN0	0.40	1,300	EMVE100 RA472MLN0S		10	F55	0.12	32	EMVE630ARA100MF55G	
	4,700 10	MN0 D55	0.40	1,350	EMVE100 RA472MMN0S EMVE160ARA100MD55G		22 33	F80 HA0	0.12	58 140	EMVE630 RA220MF80G EMVE630 RA330MHA0G	
	22	E55	0.20	30	EMVE160ARA220ME55G	63	47	HA0	0.12	170	EMVE630 RA470MHA0G	
	33	F55	0.20	45	EMVE160ARA330MF55G	03	100	JA0	0.12	310	EMVE630 RA101MJA0G	
	47	F55	0.20	48	EMVE160ARA470MF55G		220	KE0	0.12	470	EMVE630 RA221MKE0S	
	100	F55	0.26	69	EMVE160ARA101MF55G		220	LH0	0.14	560	EMVE630 RA221MLH0S	
	150	F80	0.28	100	EMVE160 RA151MF80G		330	LH0	0.14	700	EMVE630 RA331MLH0S	
	220	F80	0.28	120	EMVE160□RA221MF80G		330	MH0	0.14	750	EMVE630 RA331MMH0S	
	330	HA0	0.28	290	EMVE160□RA331MHA0G		470	LN0	0.14	900	EMVE630 RA471MLN0S	
16	470	HA0	0.28	320	EMVE160□RA471MHA0G		470	MH0	0.14	900	EMVE630□RA471MMH0S	
	680	JA0	0.28	470	EMVE160□RA681MJA0G		22	HA0	0.12	100	EMVE101□RA220MHA0G	
	1,000	KE0	0.30	550	EMVE160□RA102MKE0S		33	JA0	0.12	150	EMVE101□RA330MJA0G	
	1,000	LH0	0.30	650	EMVE160 RA102MLH0S	100	47	KE0	0.10	250	EMVE101 RA470MKE0S	
	2,200	LH0	0.32		EMVE160 RA222MLH0S		68	KE0	0.10	300	EMVE101 RA680MKE0S	
	2,200	MH0	0.32	1,000	EMVE160□RA222MMH0S		100	KE0	0.10	380	EMVE101 RA101MKE0S	
	3,300	LN0	0.34	1,200	EMVE160 RA332MLN0S		100	LH0	0.10	450	EMVE101 RA101MLH0S	
	3,300	MH0	0.34	1,200	EMVE160 RA332MMH0S		220	LN0	0.10	750	EMVE101 RA221MLN0S	
	10	E55	0.16	27	EMVE250ARA100ME55G		220	MH0	0.10	750	EMVE101 RA221MMH0S	
	22	F55	0.16	44	EMVE250ARA220MF55G		330	MN0	0.10	980	EMVE101 RA331MMN0S	
	33 47	F55 F55	0.16	50	EMVE250ARA330MF55G EMVE250ARA470MF55G							
	100	F80	0.16	100	EMVE250 RA101MF80G							
	150	HA0	0.18	240	EMVE250 RA151MHA0G							
25	220	HA0	0.18	320	EMVE250 RA221MHA0G							
_0	330	JA0	0.16	450	EMVE250 RA331MJA0G							
	470	IAO	0.10		EMVE250 RA471MIAG							

JA0

LH0

MH0

LN0

MN0

0.18

0.26

0.26

0.28

470

1,000

1,000

2,200

2,200

is scheduled to be discontinued. Production of the products shown in

490

820

880

1,250

EMVE250 RA471MJA0G

EMVE250 RA102MLH0S

EMVE250 RA102MMH0S

EMVE250 RA222MLN0S

EMVE250 RA222MMN0S

 $[\]hfill \square$: Enter the appropriate terminal code.

^{*1:} Assembly boards with the designated products attached cannot be cleaned.



- Always read "Notes on Use" before using the product in order to enable you to use the product correctly and prevent any faults and accidents from occurring.
- Request the Product Specification on the product of NIPPON CHEMI-CON CORPORATION to refer to it as well as this brochure prior to the order of the products. Some specific notes on use of the ordered product may be described in the specifications.
- The products listed in this catalog are designed and manufactured for general electronics equipment use and are not intended for use in applications that can adversely affect human life; where the malfunction of equipment may cause damage to life or property. In addition, our products are not intended to be used in specific applications that may cause a major social impact. Please consult with us in advance of usage of our products in the following listed applications. ① Aerospace equipment ② Power generation equipment such as thermal power, nuclear power etc. ③ Medical equipment ④ Transport equipment (automobiles, trains, ships, etc.) ⑤ Transportation control equipment ⑥ Disaster prevention / crime prevention equipment ⑦ Highly publicized information processing equipment ⑧ Submarine equipment ⑨ Other applications that are not considered general-purpose applications.
- The circuits described as examples in this catalog and the "delivery specifications" are featured in order to show the operations and usage of our products, however, this fact does not guarantee that the circuits are available to function in your equipment systems. We are not in any case responsible for any failures or damage caused by the use of information contained herein. You should examine our products, of which the characteristics are described in the "delivery specifications" and other documents, and determine whether or not our products suit your requirements according to the specifications of your equipment systems. Therefore, you bear final responsibility regarding the use of our products.
 - Please make sure that you take appropriate safety measures such as use of redundant design and malfunction prevention measures in order to prevent fatal accidents and/or fires in the event any of our products malfunction.
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- We reserve the right to discontinue production and delivery of products. We do not guarantee that all the products included in this catalog will be available in the future.

 The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
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In addition, we have an established system with enhanced traceability, therefore we will limit the applicable lot items for any potential compensation.

Part Numbering System
Part Numbering System (Appendix)
Standardization
Available Items by Manufacturing Locations
Environmental Measures
Technical Note
Precautions and Guidelines
Recommended Soldering Conditions
Taping, Lead-preforming and Packaging
Available Terminals for Snap-in and Screw Mount Type

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Chemi-Con:

EMVE101ARA680MKE0S EMVE101ADA330MJA0G EMVE101ADA101MKE0S EMVE201ARA220MKG5S
EMVE350ARA471MKE0S EMVE500ADA470MF80G EMVE630ARA221MKE0S EMVE100ADA102MJA0G
EMVE101ADA220MHA0G EMVE101ARA680KEOS EMVE101ARA680MKD5G EMVE160ADA220ME55G
EMVE250ADA221MHA0G EMVE250ADA331MJA0G EMVE250ADA471MJA0G EMVE350ADA101MF80G
<u>EMVE350ADA221MJA0G</u> <u>EMVE350ADA470MF80G</u> <u>EMVE500ADA100MF55G</u> <u>EMVE500ADA1R0MD55G</u>
EMVE630ADA100MF55G EMVE630ADA101MJA0G EMVE500ADA101MHA0G EMVE160ADA471MHA0G
EMVE101GDA221MLN0S EMVE630ADA4R7MF55G EMVE630ADA470MHA0G EMVE630ADA3R3ME55G
EMVE6R3GDA472MLN0S EMVE630ADA330MHA0G EMVE630ADA2R2MD55G EMVE630ADA220MF80G
EMVE630ADA1R0MD55G EMVE6R3ADA101MF55G EMVE160ADA101MF55G EMVE630GDA221MLH0S
<u>EMVE101GDA331MMN0S</u> <u>EMVE6R3GDA682MLN0S</u> <u>EMVE6R3GDA682MMN0S</u> <u>EMVE6R3GDA472MMH0S</u>
EMVE101GDA101MLH0S EMVE101GDA221MMH0S EMVE101ARA470MKE0S EMVE101ARA101MKE0S
EMVE100GDA472MMN0S EMVE6R3ADA470ME55G EMVE6R3ADA221MF80G EMVE350ADA220MF55G
EMVE630GDA471MLN0S EMVE6R3GDA332MMH0S EMVE6R3GDA222MLH0S EMVE6R3ARA332MKG5S
EMVE6R3ARA222MKE0S EMVE630ADAR47MD55G EMVE6R3ADA471MHA0G EMVE6R3ADA331MHA0G
EMVE6R3ADA330ME55G EMVE6R3ADA220MD55G EMVE6R3ADA102MJA0G EMVE6R3ADA152MJA0G
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EMVE160ADA221MF80G EMVE250ADA470MF55G EMVE160ADA331MHA0G EMVE250ADA101MF80G
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EMVE160GDA222MMH0S EMVE160GDA332MLN0S EMVE160GDA332MMH0S EMVE160ADA330MF55G
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EMVE100ADA471MHA0G EMVE100ADA470MF55G EMVE100ADA330ME55G EMVE100ADA220ME55G
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