D55 to F80

 \leq ±25% of the initial value

≦The initial specified value

≦200% of the initial specified value

MVI

Longer life

MVE

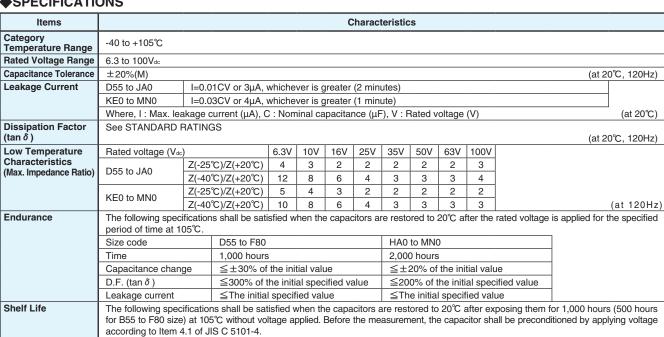
● Endurance: 1,000 to 2,000 hours at 105°C



RoHS2 Compliant

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

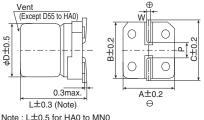
SPECIFICATIONS



◆DIMENSIONS [mm]

●Terminal Code : A

•Size code: D55 to MN0



Size code

D.F. (tan δ)

Capacitance change

Terminal Code : G (Vibration resistant structure) Size code D L A B C

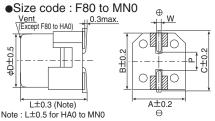
: Dummy terminals

HA0 to MN0

 \leq ±20% of the initial value

≦The initial specified value

≦200% of the initial specified value

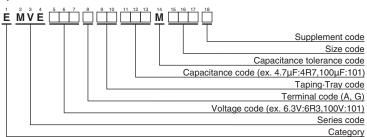


D55	4	5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 to 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 to 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	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
MNO	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	680 840	EMVE6R3 RA222MKE0S		1,000	LH0 MH0	0.22	750 1,000	EMVE350 RA102MLH0S
	2,200	LH0 KG5	0.40	850	EMVE6R3 RA222MLH0S		1,000 2,200	MN0	0.22	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
10	33	E55	0.24	34	EMVE100ARA330ME55G		47	F80	0.14	80	EMVE500 RA470MF80G
	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	(l '	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 17	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
40	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		47	KE0	0.10	250	EMVE101 RA470MKE0S
	2,200	LH0	0.32		EMVE160□RA222MLH0S	*1	68	KE0	0.10	300	EMVE101 RA680MKE0S
	2,200	MH0	0.32	1,000	EMVE160□RA222MMH0S	100	100	KE0	0.10	380	EMVE101 RA101MKE0S
25	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						
	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.
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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:

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EMVE101ARA680MKE0S EMVE101ADA330MJA0G EMVE101ADA101MKE0S EMVE201ARA220MKG5S
EMVE350ARA471MKE0S EMVE500ADA470MF80G EMVE630ARA221MKE0S EMVE100ADA102MJA0G
EMVE101ADA220MHA0G EMVE101ARA680KEOS EMVE101ARA680MKD5G EMVE160ADA220ME55G
EMVE250ADA221MHA0G
                   EMVE250ADA331MJA0G
                                     EMVE250ADA471MJA0G EMVE350ADA101MF80G
EMVE350ADA221MJA0G EMVE350ADA470MF80G EMVE500ADA100MF55G EMVE500ADA1R0MD55G
EMVE630ADA100MF55G EMVE630ADA101MJA0G EMVE500ADA101MHA0G EMVE160ADA471MHA0G
EMVE101GDA221MLN0S
                  EMVE630ADA4R7MF55G
                                      EMVE630ADA470MHA0G EMVE630ADA3R3ME55G
EMVE6R3GDA472MLN0S
                   EMVE630ADA330MHA0G
                                      EMVE630ADA2R2MD55G EMVE630ADA220MF80G
EMVE630ADA1R0MD55G
                  EMVE6R3ADA101MF55G
                                      EMVE160ADA101MF55G EMVE630GDA221MLH0S
                                      EMVE6R3GDA682MMN0S EMVE6R3GDA472MMH0S
EMVE101GDA331MMN0S EMVE6R3GDA682MLN0S
EMVE101GDA101MLH0S
                   EMVE101GDA221MMH0S
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EMVE100GDA472MMN0S EMVE6R3ADA470ME55G
                                      EMVE6R3ADA221MF80G EMVE350ADA220MF55G
EMVE630GDA471MLN0S EMVE6R3GDA332MMH0S
                                      EMVE6R3GDA222MLH0S EMVE6R3ARA332MKG5S
EMVE6R3ARA222MKE0S
                   EMVE630ADAR47MD55G
                                      EMVE6R3ADA471MHA0G EMVE6R3ADA331MHA0G
EMVE6R3ADA330ME55G
                   EMVE6R3ADA220MD55G
                                      EMVE6R3ADA102MJA0G EMVE6R3ADA152MJA0G
EMVE630GDA471MMH0S
                   EMVE630GDA331MMH0S
                                       EMVE630GDA331MLH0S
                                                         EMVE6R3ADA681MHA0G
EMVE160ADA470MF55G EMVE101ADA470MJA0G EMVE250ADA330MF55G EMVE250ADA220MF55G
EMVE250ADA151MHA0G EMVE160ADA100MD55G EMVE250ADA100ME55G EMVE160ADA681MJA0G
EMVE160ADA221MF80G EMVE250ADA470MF55G EMVE160ADA331MHA0G EMVE250ADA101MF80G
                  EMVE160ARA152MKE0S
                                     EMVE160GDA102MLH0S EMVE160GDA222MLH0S
EMVE160ARA102MKE0S
EMVE160GDA222MMH0S
                   EMVE160GDA332MLN0S
                                      EMVE160GDA332MMH0S EMVE160ADA330MF55G
EMVE100ADA221MF80G EMVE350GDA102MLH0S EMVE160ADA151MF80G EMVE100GDA472MLN0S
EMVE100GDA332MMH0S EMVE100GDA332MLH0S
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