MVI

Longer life

MVE

CHEMI-CON

Alchip[™]-**MVE**Series

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

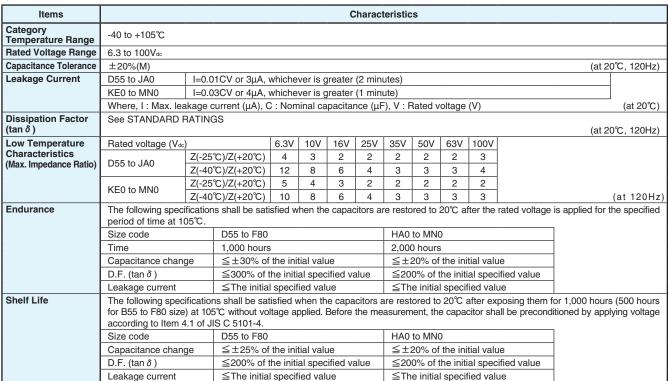
• Case size range : φ4×5.2L to φ18×21.5L

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

RoHS2 Compliant

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

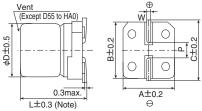
◆SPECIFICATIONS



◆DIMENSIONS [mm]

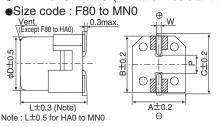
●Terminal Code : A

•Size code: D55 to MN0



Note: L±0.5 for HA0 to MN0

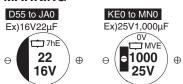
Terminal Code : G (Vibration resistant structure)



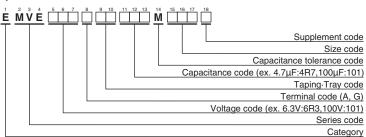
	:	Dummy	terminals
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Size code	D	L	Α	В	С	W	Р
D55	4	5.2	4.3	4.3	5.1	0.5 to 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 to 0.8	1.4
F55	6.3	5.2	5.2 6.6 6.6 7.2 0.5 to			0.5 to 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 to 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	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
	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
6.3	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	0.40	840	EMVE6R3 RA222MLH0S		1,000	MH0	0.22	1,000	EMVE350 RA102MMH0S
	3,300	KG5	0.42	850	EMVE6R3 RA332MKG5S		2,200	MN0	0.24	1,450	EMVE350 RA222MMN0S
	3,300	MH0	0.42	1,000	EMVE6R3 RA332MMH0S		1.0	D55	0.12		EMVE500ARA1R0MD55G
	4,700	LN0	0.44	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	50	47	F80	0.14	80	EMVE500 RA470MF80G
	47	F55	0.24	48	EMVE100ARA470MF55G		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
10	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	MN0	0.40	1,350	EMVE100 RA472MMN0S		22	F80	0.12	58	EMVE630 RA220MF80G
	10	D55	0.20	17	EMVE160ARA100MD55G		33	HA0	0.12	140	EMVE630 RA330MHA0G
	22	E55	0.20	30	EMVE160ARA220ME55G	63	47	HA0	0.12	170	EMVE630 RA470MHA0G
	33	F55	0.20	45	EMVE160ARA330MF55G		100	JA0	0.12	310	EMVE630 RA101MJA0G
	47 100	F55 F55	0.20	48 69	EMVE160ARA470MF55G		220 220	KE0 LH0	0.14	470 560	EMVE630 RA221MKE0S
	150	F80	0.26	100	EMVE160 RA151MF55G		330	LH0	0.14	700	EMVE630 RA221 MLH0S EMVE630 RA331 MLH0S
	220	F80	0.28	120	EMVE160 RA151MF80G 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 RA471MH0S
	680	JA0	0.28	470	EMVE160 RA681MJA0G		22	HA0	0.14	100	EMVE101 RA220MHA0G
	1,000	KE0	0.20	550	EMVE160 RA102MKE0S		33	JA0	0.12	150	EMVE101 RA330MJA0G
	1,000	LH0	0.30	650	EMVE160 RA102MLH0S		47	KE0	0.12	250	EMVE101 RA470MKE0S
		+		1				•			_
	2,200 2,200	LH0 MH0	0.32	950 1,000	EMVE160 RA222MLH0S EMVE160 RA222MMH0S	100	68 100	KE0	0.10	300	EMVE101 RA680MKE0S EMVE101 RA101MKE0S
	3,300	LN0	0.32	1,200	EMVE160 RA332MLNOS		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	0.34	27	EMVE250ARA100ME55G		220	MH0	0.10	750	EMVE101 RA221MLN0S
		F55			EMVE250ARA100ME55G			+	0.10	980	
	22		0.16	44			330	MN0	0.10	1 900	EMVE101 RA331MMN0S
	33	F55	0.16	50	EMVE250ARA330MF55G						
	47	F55 F80	0.16	100	EMVE250ARA470MF55G EMVE250 RA101MF80G						
	100	+	0.18	1							
	150	HA0	0.18	240	EMVE250□RA151MHA0G						

HA0

JA0

JA0

LH0

MH0

LN0

0.18

0.16

0.18

0.26

0.26

0.28

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

320

450

490

820

880

1,250

EMVE250 RA221MHA0G

EMVE250 RA331MJA0G

EMVE250□RA471MJA0G

EMVE250 RA102MLH0S

EMVE250 RA102MMH0S

EMVE250 RA222MLN0S

EMVE250 RA222MMN0S

25

220

330

470

1,000

1,000

2,200

2,200

MN0 $\hfill \square$: 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
 - 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

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