

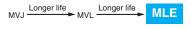
● Endurance: 7,000 to 8,000 hours at 105°C

Rated voltage range: 6.3 to 50V

 Nominal capacitance range : 1.0 to 1,000μF Suitable for long life and low profile products

Solvent resistant type (see PRECAUTIONS AND GUIDELINES)

● RoHS2 Compliant



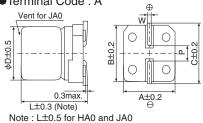


SPECIFICATIONS

Items	Characteristics							
Category Temperature Range	-25 to +105℃							
Rated Voltage Range	6.3 to 50V _{dc}							
Capacitance Tolerance	±20%(M)							(at 20℃,120Hz)
Leakage Current	I=0.03CV or 4μA, whiche Where, I: Max. leakage of				inal ca	pacitar	nce (µF), V : Rated voltage (V) (at 20°C, after 2 minutes)
Dissipation Factor	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V	
$(\tan \delta)$	tan δ (Max.)	0.32	0.28	0.26	0.16	0.14	0.14	(at 20℃,120Hz)
Low Temperature	Rated voltage(V _{dc})	6.3V	10V	16V	25V	35V	50V	
Characteristics	Z(-10°C)/Z(+20°C)	4	3	2	2	2	2	
(Max. Impedance Ratio)								(at 120Hz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is at time at 105°C.							are restored to 20°C after the rated voltage is applied for specified
Time D73 to F73 : 7,000 hours F90 to JA0 : 8,000 hours								
	Capacitance change	≦±30% of the initial value						
	D.F. (tan δ)	≦300% of the initial specified value						
	Leakage current	≦Th	e initial	specif	ied val	ue		
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.							
Capacitance change ≤±30% of the initial value								
	D.F. (tan δ)	≦30	0% of t	he initi	al spec	ified va	alue	
Leakage current ≦The initial specified value								

◆DIMENSIONS [mm]

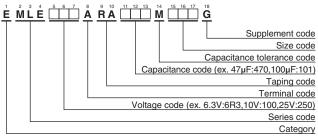




ize code	D	L	Α	В	С	W
D73	4	7.0	4.3	4.3	5.1	0.5 to
F73	5	7.0	53	53	5.0	0.5 to

Size code	D	L	Α	В	С	W	P
D73	4	7.0	4.3	4.3	5.1	0.5 to 0.8	1.0
E73	5	7.0	5.3	5.3	5.9	0.5 to 0.8	1.4
F73	6.3	7.0	6.6	6.6	7.2	0.5 to 0.8	1.9
F90	6.3	8.7	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

◆PART NUMBERING SYSTEM



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

◆MARKING

EX) 16V47μF



Rated voltage symbol

•	-					
Rated voltage (Vdc)	6.3	10	16	25	35	50
Symbol	j	Α	С	Е	V	Η





STANDARD RATINGS

WV (V _{dc})	Cap (µF)		Rated ripple current (mArms/105°C, 120Hz)	Part No.	WV (V _{dc})	Cap (µF)	Size code	Rated ripple current (mArms/105°C, 120Hz)	Part No.
	22	D73	22	EMLE6R3ARA220MD73G		1.0	D73	6.2	EMLE350ARA1R0MD73G
	47	E73	36	EMLE6R3ARA470ME73G		2.2	D73	11	EMLE350ARA2R2MD73G
6.3	100	F73	60	EMLE6R3ARA101MF73G		3.3	D73	14	EMLE350ARA3R3MD73G
0.3	220	F90	101	EMLE6R3ARA221MF90G		4.7	D73	15	EMLE350ARA4R7MD73G
	330	HA0	160	EMLE6R3ARA331MHA0G		4.7	E73	19	EMLE350ARA4R7ME73G
	1,000	JA0	313	EMLE6R3ARA102MJA0G	35	10	E73	25	EMLE350ARA100ME73G
10	33	E73	35	EMLE100ARA330ME73G		10	F73	30	EMLE350ARA100MF73G
10	220	HA0	141	EMLE100ARA221MHA0G		22	F73	42	EMLE350ARA220MF73G
	10	D73	18	EMLE160ARA100MD73G		22	F90	49	EMLE350ARA220MF90G
	22	E73	30	EMLE160ARA220ME73G		33	F90	57	EMLE350ARA330MF90G
16	47	F73	50	EMLE160ARA470MF73G		220	JA0	216	EMLE350ARA221MJA0G
	100	F90	81	EMLE160ARA101MF90G		33	HA0	77	EMLE500ARA330MHA0G
	470	JA0	254	EMLE160ARA471MJA0G	50	47	HA0	92	EMLE500ARA470MHA0G
	33	F73	48	EMLE250ARA330MF73G		100	JA0	151	EMLE500ARA101MJA0G
25	47	F90	63	EMLE250ARA470MF90G					

100 HA0 116 EMLE250ARA101MHA0G

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

◆RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
1.0	1.00	1.50	1.75	1.80
2.2 to 10	1.00	1.30	1.40	1.50
22 to 1,000	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.



- 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.
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 The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products
- We continually strive to improve the quality and reliability of our products, but in any case that our product does not meet our published specifications, please stop using it promptly and contact us immediately. As for compensation for non-conforming goods delivered by Chemi-Con, we will limit it only to goods found in non-compliance of our published specifications. This may be accomplished by a no cost replacement of non-conforming individual products, a credit of the piece price paid per each individual non-conforming product, or in other ways deemed necessary.

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