

Alchip[™]-

- Endurance : 3,000 to 5,000 hours at 105°C
- Suitable for applications requiring long life such as continuously operating equipment, industrial applications, etc
- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- RoHS2 Compliant



◆SPECIFICATIONS

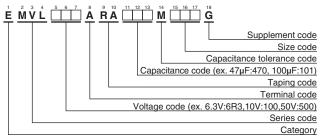
Items	Characteristics											
Category Temperature Range	-40 to +105℃											
Rated Voltage Range	6.3 to 50V _{dc}											
Capacitance Tolerance	±20%(M) (at 20℃,120Hz)											
Leakage Current	I=0.03CV or 4μA, whichever is greater Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C, after 2 minutes)											
Dissipation Factor	Rated voltage (V _{dc})	6.3V	10V	16V	25V	35V	50V					
$(\tan \delta)$	Max. $tan \delta$	0.28	0.24	0.20	0.16	0.13	0.12	(at 20℃,120Hz)				
Low Temperature	Rated voltage(Vdc)	6.3V	10V	16V	25V	35V	50V					
Characteristics	Z(-25°C)/Z(+20°C)	4	3	2	2	2	2					
(Max. impedance Ratio)	Z(-40°C)/Z(+20°C)	10	7	5	3	3	3	(at 120Hz)				
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for											
	specified time at 105℃.											
	Time F80 : 3,000 hours HA0 & JA0 : 5,000 hours											
	Capacitance change	≦±:	30% of	the init	tial valu	ie						
	D.F. (tan δ)	≦30	0% of t	he initi	al spec	ified va						
	Leakage current	≦Th	e initial	specif	ied valı	ue						
Shelf Life	restored to 20°C after exposing them for 1,000 hours at 105°C without											
	voltage applied. Before the	measu	rement	, the ca	pacitor	shall b	e preco	nditioned 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]

■Terminal Code : A Vent for JA0 0 0.3max.* A±0.2 L±0.3 (Note)

Size code	D	L	Α	В	С	W	Р
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

◆PART NUMBERING SYSTEM



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

MARKING

EX) 50V47μF



STANDARD RATINGS

Note: L±0.5 for HA0 and JA0

WV (V _{dc})	Cap (µF)	Size code		Rated ripple current (mArms/ 105°C, 120Hz)	Part No.	WV (Vdc)	Cap (µF)	Size code	tan δ	Rated ripple current (mArms/ 105°C, 120Hz)	Part No.
	220	F80	0.28	101	EMVL6R3ARA221MF80G	35	33	F80	0.13	57	EMVL350ARA330MF80G
6.3	330	HA0	0.28	160	EMVL6R3ARA331MHA0G	35	220	JA0	0.13	216	EMVL350ARA221MJA0G
	1,000	JA0	0.28	313	EMVL6R3ARA102MJA0G		22	F80	0.12	49	EMVL500ARA220MF80G
10	220	HA0	0.24	141	EMVL100ARA221MHA0G	50	33	HA0	0.12	77	EMVL500ARA330MHA0G
16	100	F80	0.20	81	EMVL160ARA101MF80G	50	47	HA0	0.12	92	EMVL500ARA470MHA0G
10	470	JA0	0.20	254	EMVL160ARA471MJA0G		100	JA0	0.12	151	EMVL500ARA101MJA0G
	47	F80	0.16	63	EMVL250ARA470MF80G				,		
25	100	HA0	0.16	116	EMVL250ARA101MHA0G						

EMVL250ARA331MJA0G

◆RATED RIPPLE CURRENT MULTIPLIERS

238

Frequency Multipliers

330

Capacitance(μF) Frequency(Hz)	120	1k	10k	100k
22 to 1,000	1.00	1.05	1.08	1.08

JA0 0.16

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.



CHEMI-CON ALUMINUM ELECTROLYTIC CAPACITORS

- 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 ® Submarine equipment ® 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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 - products
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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