

- Suitable for small and low profile product such as the car audio and electronics
- Non solvent resistant type
- RoHS2 Compliant

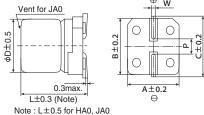


SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-40 to +85℃									
Rated Voltage Range	6.3 to 50V _{dc}									
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)									
Leakage Current	I=0.01CV or 3μA, 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		
$(\tan \delta)$	1 2 (1.4	F55	0.30	0.24	0.20	0.16	0.14	0.12		
	tan∂ (Max.)	HA0, JA0	0.40	0.30	0.26	0.16	0.14	0.12	(at 20℃, 120Hz)	
Low Temperature	Rated voltage (V _{dc})		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)		12	8	6	4	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 2,000 hours at 85°C.									
	Capacitance change			20% of	the ini	tial valu	ıe			
	D.F. (tan δ)		≦200% of the initial specified value							
	Leakage current		≦The initial specified value							
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 500 hours at 85°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		≦±2	20% of	the ini	tial valu	ıe			
	D.F. (tan δ)		≦20	0% of t	he initi	al spec	ified va	alue		
	Leakage current		≦Th	e initia	specif	ied val	ue			

DIMENSIONS[mm]

●Terminal Code : A



Size code	D	L	Α	В	С	W	Р
F55	6.3	5.2	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

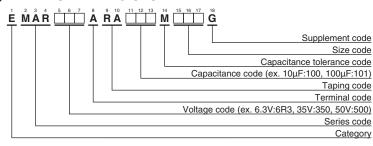
◆MARKING

EX)16V47μF 47

Rated voltage symbol

Symbol
j
Α
С
E
V
Н

◆PART NUMBERING SYSTEM



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

◆STANDARD RATINGS

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WV (V _{dc})	Cap (μF)	Size Code	tan δ	Part No.	WV (V _{dc})	Cap (μF)	Size Code	tan δ	Part No.
	100	F55	0.30	EMAR6R3ARA101MF55G		22	F55	0.16	EMAR250ARA220MF55G
6.3	470	HA0	0.40	EMAR6R3ARA471MHA0G	25	33	F55	0.16	EMAR250ARA330MF55G
	1,000	JA0	0.40	EMAR6R3ARA102MJA0G	25	220	HA0	0.16	EMAR250ARA221MHA0G
	47	F55	0.24	EMAR100ARA470MF55G		330	JA0	0.16	EMAR250ARA331MJA0G
10	100	F55	0.24	EMAR100ARA101MF55G		22	F55	0.14	EMAR350ARA220MF55G
10	330	HA0	0.30	EMAR100ARA331MHA0G	35	100	HA0	0.14	EMAR350ARA101MHA0G
	470	JA0	0.30	EMAR100ARA471MJA0G		220	JA0	0.14	EMAR350ARA221MJA0G
	33	F55	0.20	EMAR160ARA330MF55G		10	F55	0.12	EMAR500ARA100MF55G
	47	F55	0.20	EMAR160ARA470MF55G	50	47	HA0	0.12	EMAR500ARA470MHA0G
16	220	HA0	0.26	EMAR160ARA221MHA0G		100	JA0	0.12	EMAR500ARA101MJA0G
	330	HA0	0.26	EMAR160ARA331MHA0G					
	470	JA0	0.26	EMAR160ARA471MJA0G					



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.
 - 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
- 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