

O Long life with a new composite sealing structure.

■Endurance : 5,000 hours at 125°C

• For automobile modules and other high temperature applications.

• High temperature reflow soldering (Peak temp.:260°C/1 cycle only)

- Solvent resistant type (see PRECAUTIONS AND GUIDELINES)
- High vibration resistance (40G)
- RoHS2 Compliant

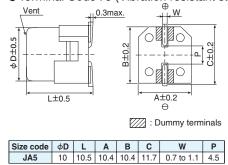
●AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

## ♦ SPECIFICATIONS

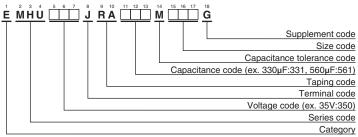
	Characteristics									
Category Temperature Range	-40 to +125℃									
Rated Voltage Range	25, 35V∞									
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)									
Leakage Current	I=0.01CV									
, , , , , , , , , , , , , , , , , , ,	Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)									
	Rated voltage(V <sub>dc</sub> )	25V	35V							
$(\tan \delta)$	tan $\delta$ (Max.)	0.16	0.14				at 20℃, 120Hz)			
Low Temperature	Rated voltage(V <sub>dc</sub> )	25V	35V							
	Z(-25°C)/Z(+20°C)	2	2							
(Max. impedance Ratio)	Z(-40°C)/Z(+20°C)	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 5,000 hours at 125°C.									
	Capacitance change	≦±3	30% of	the initial value						
ί Γ	D.F. (tan δ)	≦30	0% of t	he initial specified value						
ί Γ	Leakage current	≦Th	e initial	l specified value						
	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 200 hours at 150°C without voltage applied and the rated voltage is applied for 4,000 hours at 125°C.									
1 [	Appearance	No si	gnifica	nt damage						
	Capacitance change	≦±3	30% of	the initial value						
í r	D.F. (tan δ)	≦30	00% of the initial specified value							
	Leakage current			l specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°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.									
I L	Capacitance change	≦±3	80% of	the initial value						
	D.F. (tan δ)	≦30	0% of t	he initial specified value						
	Leakage current			l specified value						
Vibration	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to vibration test (vibration conditions shown below) at room temperature (15 to 35°C).									
	Appearance		No si	ignificant damage						
í r	Capacitance change		≦±2	20% of the initial value						
1 F	D.F. (tan δ)			0% of the initial specified va	alue					
í F	Leakage current			≦The initial specified value						
í F	Conditions									
í F	Vibration frequency range		10 to	2,000Hz						
	Amplitude or Acceleration		5mm							
	Acceleration			40G max.						
	Sweep rate		10 to							
	Direction and period of motion		2 hours in each of 3 mutually perpendicular directions (total of 6 hours)							

### **DIMENSIONS** [mm]





## **♦**PART NUMBERING SYSTEM



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

#### MARKING



Rated voltage symbol
Rated voltage (Vdc) Symbol
25 E
35 V



## **STANDARD RATINGS**

WV (V <sub>dc</sub> )	Cap (μF)	Size code	Es (Ω max.	SR /100kHz)	Rated ripple current (mArms/125°C, 100kHz)	Part No.	
			20°C	-40°C	(marms/125 C, 100kHz)		
25	470	JA5	0.15	2.0	800	EMHU250JRA471MJA5G	
	560	JA5	0.15	2.0	800	EMHU250JRA561MJA5G	
35	330	JA5	0.15	2.0	800	EMHU350JRA331MJA5G	
35	470	JA5	0.15	2.0	800	EMHU350JRA471MJA5G	

## **♦**RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	10k	100k
330 to 560	0.50	0.85	0.94	1.00

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.

Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications.

# 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 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 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.

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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