CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS NIPPON CHEMICON

Surface Mount

Series

нха Higher temperature **HXB**



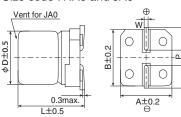
- O High reliability and high voltage are realized by hybrid electrolyte Endurance with ripple current : 5,000 hours at 105°C
- For high reliability applications.
- (Automotive equipment, Base station equipment, etc.)
- RoHS2 Compliant
- Halogen Free
- ●AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-55 to +105℃						
Rated Voltage Range	80V _{dc}						
Capacitance Tolerance	±20% (M)				(at 20°C, 120Hz)		
Leakage Current		I=0.01CV or 3μ A, whichever is greater Where, I : Max. leakage current (μ A), C: Nominal capacitance(μ F), V : Rated voltage(V) (at 20°C after 2 minutes)					
Dissipation Factor	Rated voltage(Vdc)	80V					
(tan δ)	tanδ (Max.)	0.08]		(at 20℃, 120Hz)		
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)≦1.5 Z(-55°C)/Z(+20°C)≦2.0				(at 100kHz)		
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 5,000 hours at 105 °C.						
	Capacitance change	$\leq \pm 30^{\circ}$	% of the initial value				
	D.F. (tan δ)	≦ 2009	% of the initial specified value				
	ESR	≤ 200 °	% of the initial specified value				
	Leakage current	\leq The	initial specified value				
Shelf Life The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hour without voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to iter C 5101-4.							
	Capacitance change	$\leq \pm 30^{\circ}$	% of the initial value				
	D.F. (tan δ)	≦ 2009	% of the initial specified value				
	ESR	≦ 2009	% of the initial specified value				
	Leakage current	\leq The	initial specified value				

◆DIMENSIONS [mm]

- Terminal Code : A
- Size code : HA0 and JA0



◆PART NUMBERING SYSTEM

 $\overset{1}{\mathsf{H}} \overset{2}{\mathsf{H}} \overset{3}{\mathsf{H}} \overset{4}{\mathsf{H}} \overset{5}{\mathsf{H}} \overset{6}{\mathsf{H}} \overset{7}{\mathsf{H}} \overset{8}{\mathsf{H}} \overset{9}{\mathsf{H}} \overset{10}{\mathsf{H}} \overset{11}{\mathsf{H}} \overset{12}{\mathsf{H}} \overset{13}{\mathsf{H}} \overset{14}{\mathsf{H}} \overset{15}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{17}{\mathsf{H}} \overset{18}{\mathsf{H}} \overset{8}{\mathsf{H}} \overset{9}{\mathsf{H}} \overset{10}{\mathsf{H}} \overset{11}{\mathsf{H}} \overset{12}{\mathsf{H}} \overset{13}{\mathsf{H}} \overset{14}{\mathsf{H}} \overset{15}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{17}{\mathsf{H}} \overset{18}{\mathsf{H}} \overset{8}{\mathsf{H}} \overset{8}{\mathsf{H}} \overset{9}{\mathsf{H}} \overset{10}{\mathsf{H}} \overset{11}{\mathsf{H}} \overset{12}{\mathsf{H}} \overset{13}{\mathsf{H}} \overset{14}{\mathsf{H}} \overset{15}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{17}{\mathsf{H}} \overset{18}{\mathsf{H}} \overset{8}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{17}{\mathsf{H}} \overset{18}{\mathsf{H}} \overset{18}{\mathsf{H}} \overset{18}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{16}{\mathsf{H}} \overset{18}{\mathsf{H}} \overset{18}{\mathsf$

• Terminal Code : G(Vibration resistant structure)

B±0.2

Supplement code

Capacitance tolerance code Capacitance code (ex. 22µF:220)

Voltage code (ex. 80V:800)

Size code

Taping code Terminal code

> Series code Category

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.

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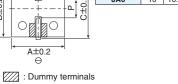
W

NGC $\cap \mathbb{R}$





φ D±0.5



Size Code

HA0

JA0

φD L Α в С

8 10.0 8.3 8.3 9.0



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	Rated	voltage	symbol
-	ialeu	vonage	Symbol

10 10.0 10.3 10.3 11.0 0.7 to 1.1 4.5

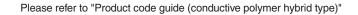
Rated voltage (Vdc)	Symbol		
80	K		

w

0.7 to 1.1

Р

3.1



HXBSeries

♦STANDARD RATINGS

WV (Vdc)	Сар (µF)	Size code	ESR (mΩmax./20℃, 100kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.	
80	22	HA0	45	1,600	HHXB800 RA220MHA0G	
	39	JA0	35	1,700	HHXB800□RA390MJA0G	

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 \Box : Enter the appropriate terminal code.

♦RATED RIPPLE CURRENT MULTIPLIERS

Frequency Multipliers

Capacitance(µF) Frequency(Hz)	120	1k	5k	10k	20k	30k	100k to 500k
22	0.07	0.30	0.50	0.60	0.70	0.75	1.00
39	0.10	0.40	0.60	0.70	0.80	0.80	1.00