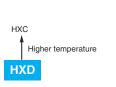
Surface Mount

HXD_{Series}

- O High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current : 5,000 to 10,000 hours at 105°C
- \blacksquare Rated voltage range : 16 to 80Vdc, Capacitance range : 6.8 to 560 μF
- 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

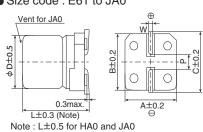




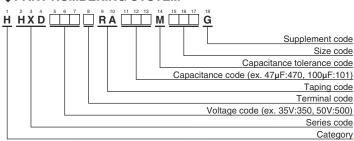
Items	Characteristics								
Category Temperature Range	-55 to +105℃								
Rated Voltage Range	16 to 80V _{dc}								
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)								
Leakage Current	I=0.01CV or 3μ A, whichever is greater Where, I : Max. leakage current (μ A), C: Nominal capacitance(μ F), V : Rated voltage(V) (at 20°C after 2 minutes)								
Dissipation Factor	Rated voltage(Vdc)	16V	25V	35V	50V	63V	80V		
$(\tan \delta)$	tanδ (Max.)	0.16	0.14	0.12	0.10	0.08	0.08	(at 20℃, 120Hz)	
Low Temperature Characteristics (Max. Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \le 1.5$ $Z(-55^{\circ}C)/Z(+20^{\circ}C) \le 2.0$ (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 10,000 hours (E61 and F61: 5,000 hours) at 105 °C.								
	Capacitance change $\leq \pm 30\%$ of the initial value								
	D.F. (tan δ)	\leq 200% of the initial specified value \leq 200% of the initial specified value							
	ESR								
	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 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	hange $\leq \pm 30\%$ of the initial value							
	D.F. (tan δ)	F. (tan δ) \leq 200% of the initial specified value							
	ESR $\leq 200\%$ of the initial specified value								
	Leakage current \leq The initial specified value								
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to the DC rated voltage at 85°C, 85% RH for 2,000 hours.								
	Appearance	No sign	ificant da	image					
	Capacitance change	$\leq \pm 30$	% of the	initial valu	ie				
	D.F. (tan δ)	≦ 2009	6 of the ir	nitial spec	ified value	1			
	ESR	≦ 2009	6 of the ir	nitial spec	ified value	7			
	Leakage current	≦ The	nitial spe	cified valu	le				

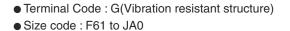
DIMENSIONS [mm]

- Terminal Code : A
- Size code : E61 to JA0



◆PART NUMBERING SYSTEM





0.3max.

Vent for JA0

L±0.3 (Note)

Note : L±0.5 for HA0 and JA0

¢ D±0.5

W Size Code φD в С W Ρ L Α 1.4 E61 5 5.8 5.3 5.3 5.9 0.5 to 0.8 Oľ 00 B±0.2 C±0.2 F61 6.3 5.8 6.6 6.6 7.2 0.5 to 0.8 1.9 _م. F80 6.3 7.7 6.6 7.2 0.5 to 0.8 1.9 6.6 HA0 8 10.0 8.3 8.3 9.0 0.7 to 1.1 3.1 \cap ⊿⊘ JA0 10 10.0 10.3 10.3 11.0 0.7 to 1.1 4.5 A±0.2

: Dummy terminals

θ

EX) 35V47µF ⊖ 26A 47 V HD ⊕

Rated voltage syn	nbol
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Rated voltage (Vdc)	Symbol
16	С
25	E
35	V
50	Н
63	J
80	K

Please refer to "Product code guide (conductive polymer hybrid type)"

HXD_{Series}

♦STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	ESR (mΩmax./20℃, 100kHz)	Rated ripple current (mArms/105℃, 100kHz)	Part No.
16	47	E61	80	900	HHXD160ARA470ME61G
	82	F61	45	1,600	HHXD160 RA820MF61G
	100	F61	45	1,600	HHXD160 RA101MF61G
	150	F80	27	2,200	HHXD160 RA151MF80G
	180	F80	27	2,200	HHXD160 RA181MF80G
	270	HA0	22	2,500	HHXD160 RA271MHA0G
	330	HA0	22	2,500	HHXD160 RA331MHA0G
	470	JA0	18	2,600	HHXD160 RA471 MJA0G
	560	JA0	18	2,600	HHXD160 RA561 MJA0G
	33	E61	80	900	HHXD250ARA330ME61G
	47	F61	50	1,300	HHXD250 RA470MF61G
	56	F61	50	1,300	HHXD250 RA560MF61G
	68	F80	30	2,000	HHXD250 RA680MF80G
	100	F80	30	2,000	HHXD250 RA101MF80G
25	150	HA0	27	2,300	HHXD250 RA151MHA0G
	220	HA0	27	2,300	HHXD250 RA221MHA0G
	270	JA0	20	2,500	HHXD250 RA271MJA0G
	330	JA0	20	2,500	HHXD250 RA331MJA0G
	390	JAO	20	2,500	HHXD250 RA391MJA0G
	22	E61	100	900	HHXD350ARA220ME61G
35	27	F61	60	1,300	HHXD350 RA270MF61G
	47	F61	60	1,300	HHXD350 RA470MF61G
	47	F80	35	2,000	HHXD350 RA470MF80G
	68	F80	35	2,000	HHXD350 RA680MF80G
	100	HA0	27	2,300	HHXD350 RA101MHA0G
	150	HA0	27	2,300	HHXD350 RA151MHA0G
	150	JAO	20	2,500	HHXD350 RA151MJA0G
	270	JAO	20	2,500	HHXD350 RA271MJA0G
	10	F61	80	1,100	HHXD500 RA100MF61G
	15	F80	40	1,600	HHXD500 RA150MF80G
	22	F61	80	1,100	HHXD500 RA220MF61G
	33	F80	40	1,600	HHXD500 RA330MF80G
	33	HA0	30		
50	47	HAU	30	1,800	HHXD500 RA330MHA0G
				1,800	
	56	JAO	25	2,400	HHXD500 RA560MJA0G
	68	HAO	30	1,800	HHXD500 RA680MHA0G
	82	HAO	30	1,800	HHXD500 RA820MHA0G
	100	JAO	25	2,400	HHXD500 RA101MJA0G
	120	JAO	25	2,400	HHXD500 RA121MJA0G
	6.8	F61	120	1,000	HHXD630 RA6R8MF61G
63	10	F61	120	1,000	HHXD630 RA100MF61G
	10	F80	80	1,500	HHXD630 RA100MF80G
	22	F80	80	1,500	HHXD630 RA220MF80G
	22	HA0	40	1,600	HHXD630 RA220MHA0G
	33	HA0	40	1,600	HHXD630 RA330MHA0G
	33	JA0	30	2,400	HHXD630 RA330MJA0G
	47	HA0	40	1,600	HHXD630 RA470MHA0G
	56	JA0	30	2,400	HHXD630 RA560MJA0G
	82	JA0	30	2,400	HHXD630 RA820MJA0G
	100	JA0	30	2,400	HHXD630 RA101MJA0G
80	27	HA0	45	1,600	HHXD800 RA270MHA0G
00	56	JA0	33	2,400	HHXD800 RA560MJA0G

 \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
to 10	0.03	0.30	0.50	0.60	0.70	0.75	1.00
15 to 33	0.07	0.30	0.50	0.60	0.70	0.75	1.00
47 to 180	0.10	0.40	0.60	0.70	0.80	0.80	1.00
220 to 560	0.13	0.45	0.65	0.75	0.85	0.85	1.00

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 CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS Product Guide

- 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.
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- 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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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, Terminal and Packaging Options