CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

Surface Mount

HXJ Series New!

- High reliability is realized by hybrid electrolyte
- Endurance with ripple current : 4,000 hours at 125℃
- Rated voltage range : 16 to 63Vdc, Capacitance range : 56 to 820μF
- For high temperature and 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.

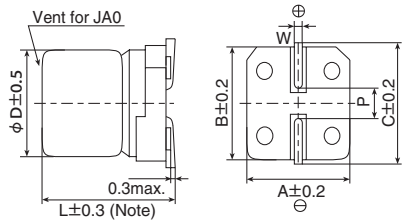
HXJ
↑ Higher capacitance
HXC

◆SPECIFICATIONS

Items	Characteristics						
Category Temperature Range	-55 to +125℃						
Rated Voltage Range	16 to 63Vdc						
Capacitance Tolerance	±20% (M)						(at 20℃, 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℃ after 2 minutes)
Dissipation Factor (tan δ)	Rated voltage(Vdc)	16V	25V	35V	50V	63V	
	tan δ (Max.)	0.16	0.14	0.12	0.10	0.08	(at 20℃, 120Hz)
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25℃)/Z(+20℃)≦1.5 Z(-55℃)/Z(+20℃)≦2.0						(at 100kHz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated voltage) for 4,000 hours at 125℃.						
	Capacitance change	≦±30% of the initial value					
	D.F. (tan δ)	≦ 200% of the initial specified value					
	ESR	≦ 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℃ after exposing them for 1,000 hours at 125℃ 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	≦±30% of the initial value					
	D.F. (tan δ)	≦ 200% of the initial specified value					
	ESR	≦ 200% of the initial specified value					
	Leakage current	≦ The initial specified value					
Bias Humidity Test	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them to the DC rated voltage at 85℃, 85% RH for 2,000 hours.						
	Appearance	No significant damage					
	Capacitance change	≦ ±30% of the initial value					
	D.F. (tan δ)	≦ 200% of the initial specified value					
	ESR	≦ 200% of the initial specified value					
	Leakage current	≦ The initial specified value					

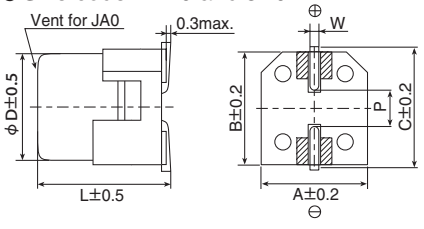
◆DIMENSIONS [mm]

- Terminal Code : A
- Size code : F61 to JA0



Note : L±0.5 for HA0 and JA0

- Terminal Code : G(Vibration resistant structure)
- Size code : HA0 and JA0



▨ : Dummy terminals

Size Code	φD	L	A	B	C	W	P
F61	6.3	5.8	6.6	6.6	7.2	0.5 to 0.8	1.9
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

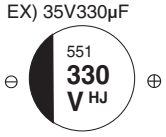
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	H	X	J					R	A				M				G

- 18 : Supplement code
- 15–17 : Size code
- 14 : Capacitance tolerance code
- 11–13 : Capacitance code (ex. 82μF:820, 470μF:471)
- 9–10 : Taping code
- 8 : Terminal code (A, G)
- 5–7 : Voltage code (ex. 16V:160, 50V:500)
- 4 : Series code
- 1–3 : Category

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

◆MARKING

EX) 35V330μF



●Rated voltage symbol

Rated voltage (Vdc)	Symbol
16	C
25	E
35	V
50	H
63	J

HXJ New! Series

◆STANDARD RATINGS

WV (V_{dc})	Cap (μF)	Size code	ESR (mΩ max./20℃, 100kHz)	Rated ripple current (mArms/125℃, 100kHz)	Part No.
16	150	F61	45	1,080	HHXJ160ARA151MF61G
	220	F80	27	1,800	HHXJ160ARA221MF80G
	470	HA0	20	2,000	HHXJ160□RA471MHA0G
	820	JA0	18	2,800	HHXJ160□RA821MJA0G
25	68	F61	50	1,300	HHXJ250ARA680MF61G
	82	F61	50	1,300	HHXJ250ARA820MF61G
	100	F61	50	1,300	HHXJ250ARA101MF61G
	150	F80	30	1,800	HHXJ250ARA151MF80G
	180	F80	30	1,800	HHXJ250ARA181MF80G
	270	HA0	22	2,000	HHXJ250□RA271MHA0G
	330	HA0	22	2,000	HHXJ250□RA331MHA0G
	470	JA0	20	2,800	HHXJ250□RA471MJA0G
	560	JA0	20	2,800	HHXJ250□RA561MJA0G
35	56	F61	60	1,200	HHXJ350ARA560MF61G
	68	F61	60	1,200	HHXJ350ARA680MF61G
	100	F80	35	1,700	HHXJ350ARA101MF80G
	120	F80	35	1,700	HHXJ350ARA121MF80G
	180	HA0	22	2,000	HHXJ350□RA181MHA0G
	220	HA0	22	2,000	HHXJ350□RA221MHA0G
	330	JA0	20	2,800	HHXJ350□RA331MJA0G
	390	JA0	20	2,800	HHXJ350□RA391MJA0G
50	82	HA0	30	1,700	HHXJ500□RA820MHA0G
	150	JA0	25	2,000	HHXJ500□RA151MJA0G
63	56	HA0	40	1,700	HHXJ630□RA560MHA0G
	100	JA0	30	2,000	HHXJ630□RA101MJA0G

□ : Enter the appropriate terminal code.

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance(μF) \ Frequency(Hz)	120	1k	5k	10k	20k	30k	100k to 500k
56 to 82	0.15	0.50	0.70	0.75	0.80	0.80	1.00
100 to 820	0.15	0.50	0.70	0.75	0.85	0.85	1.00