

HXJ Series

Upgrade!

- High reliability is realized by hybrid electrolyte
- Endurance with ripple current : 4,000 hours at 125°C
- Rated voltage range : 16 to 63V_{dc}, 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

↓
Downsized
HXC



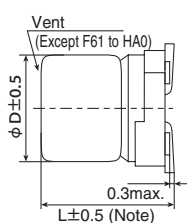
SPECIFICATIONS

Items	Characteristics						
Category							
Temperature Range	-55 to +125℃						
Rated Voltage Range	16 to 63V _{dc}						
Capacitance Tolerance	± 20% (M) (at 20℃, 120Hz)						
Leakage Current	I=0.01CV or 3 μ A, whichever is greater Where, I : Max. leakage current (μ A), C: Nominal capacitance(μ F), V : Rated voltage(V) (at 20℃ after 2 minutes)						
Dissipation Factor (tan δ)	Rated voltage(V _{dc})	16V	25V	35V	50V	63V	(at 20℃, 120Hz)
	tan δ (Max.)	0.16	0.14	0.12	0.10	0.08	
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					

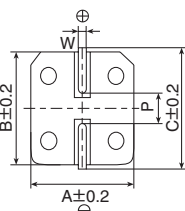
DIMENSIONS [mm]

- Terminal Code : A

- Size code : F61 to JC5

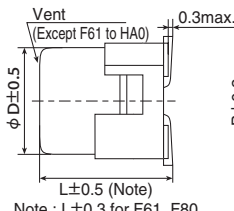


Note : L±0.3 for F61, F80

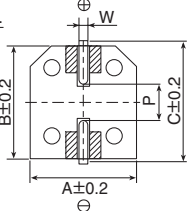


- Terminal Code : G(Vibration resistant structure)

- Size code : F61 to JC5



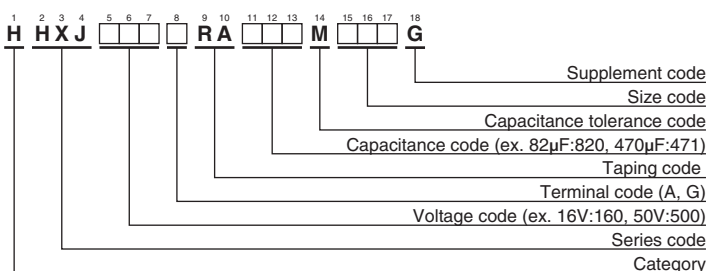
Note : L±0.3 for F61, F80



⊠ : 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
JC5	10	12.5	10.3	10.3	11.0	0.7 to 1.1	4.5

PART NUMBERING SYSTEM



MARKING

EX) 35V330μF



- Rated voltage symbol

Rated voltage (V _{dc})	Symbol
16	C
25	E
35	V
50	H
63	J

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

◆STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	ESR (mΩ max./20°C, 100kHz)	Rated ripple current (mA _{rms} /125°C, 100kHz)	Part No.
16	150	F61	45	1,080	HHXJ160□ RA151MF61G
	220	F80	27	1,800	HHXJ160□ RA221MF80G
	470	HA0	20	2,000	HHXJ160□ RA471MHA0G
	820	JA0	18	2,800	HHXJ160□ RA821MJA0G
25	68	F61	50	1,300	HHXJ250□ RA680MF61G
	82	F61	50	1,300	HHXJ250□ RA820MF61G
	100	F61	50	1,300	HHXJ250□ RA101MF61G
	150	F80	30	1,800	HHXJ250□ RA151MF80G
	180	F80	30	1,800	HHXJ250□ RA181MF80G
	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
	680	JC5	15	3,700	HHXJ250□ RA681MJC5G
35	56	F61	60	1,200	HHXJ350□ RA560MF61G
	68	F61	60	1,200	HHXJ350□ RA680MF61G
	100	F80	35	1,700	HHXJ350□ RA101MF80G
	120	F80	35	1,700	HHXJ350□ RA121MF80G
	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
	470	JC5	16	3,600	HHXJ350□ RA471MJC5G
50	82	HA0	30	1,700	HHXJ500□ RA820MHA0G
	150	JA0	25	2,000	HHXJ500□ RA151MJA0G
	180	JC5	19	3,300	HHXJ500□ RA181MJC5G
63	56	HA0	40	1,700	HHXJ630□ RA560MHA0G
	100	JA0	30	2,000	HHXJ630□ RA101MJA0G
	120	JC5	19	3,300	HHXJ630□ RA121MJC5G

□ : 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