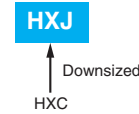


HXJ *Upgrade!*
Series

- 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.

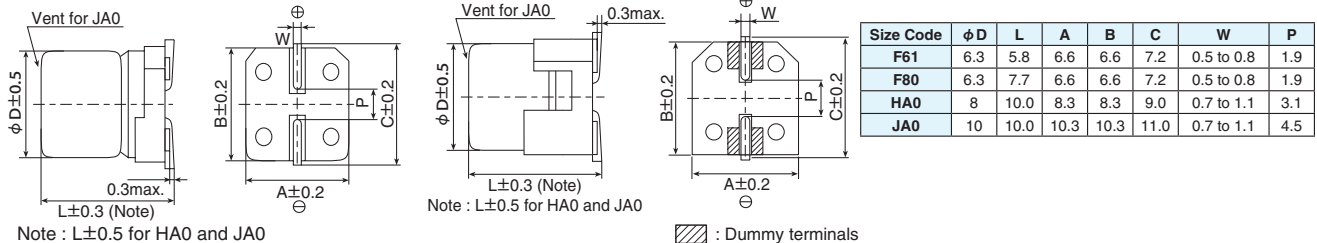


◆ SPECIFICATIONS

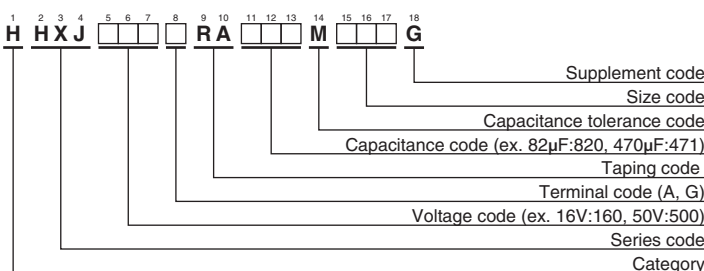
Items	Characteristics						
Category Temperature Range	-55 to +125°C						
Rated Voltage Range	16 to 63V _{dc}						
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)						
Leakage Current	I=0.01CV or 3μA, whichever is greater Where, I : Max. leakage current (μA), C: Nominal capacitance(μF), V : Rated voltage(V) (at 20°C after 2 minutes)						
Dissipation Factor (tan δ)	Rated voltage(V _{dc})	16V	25V	35V	50V	63V	(at 20°C, 120Hz)
	tan δ (Max.)	0.16	0.14	0.12	0.10	0.08	
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 4,000 hours at 125°C.						
	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°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.						
	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°C after subjecting them to the DC rated voltage at 85°C, 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]

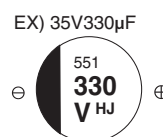
- Terminal Code : A
- Size code : F61 to JA0
- Terminal Code : G (Vibration resistant structure)
- Size code : F61 to JA0



◆ PART NUMBERING SYSTEM



◆ MARKING



● 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
	35	56	F61	60	1,200
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
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