

- High reliability is realized by hybrid electrolyte
- Endurance with ripple current: 4,000 hours at 125°C
- 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.

Downsized



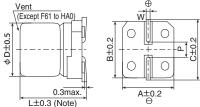
SPECIFICATIONS

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 3μ A, which Where, I: Max. leakage of	0		ominal cap	oacitance	μF), V :	: Rated voltage(V)	(at 20°C after 2 minutes)	
Dissipation Factor	Rated voltage(Vdc)	16V	25V	35V	50V	63V			
(tan δ)	tan δ (Max.)	0.16	0.14	0.12	0.10	0.08		(at 20℃, 120Hz)	
Low Temperature Characteristics (Max. Impedance Ratio)	$Z(-25^{\circ}C)/Z(+20^{\circ}C)$ ≦1.5 $Z(-55^{\circ}C)/Z(+20^{\circ}C)$ ≦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		$\leq \pm 30\%$ of the initial value						
	D.F. (tan δ)		\leq 200% of the initial specified value						
	ESR	≤ 200% of the initial specified value							
	Leakage current			cified valu					
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°	6 of the in	itial speci	fied 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 sign	ificant da	mage					
	Capacitance change	≦ ±30	% of the	initial valu	е				
	D.F. (tan δ)	≤ 200% of the initial specified value							
	ESR	≦ 2009	% of the ir	nitial speci	fied value				
	Leakage current	≦ The	initial spe	cified valu	е				

◆DIMENSIONS [mm]

Terminal Code : A

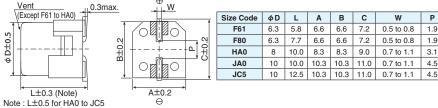
• Size code: F61 to JC5



Note: L±0.5 for HA0 to JC5

Terminal Code : G(Vibration resistant structure)

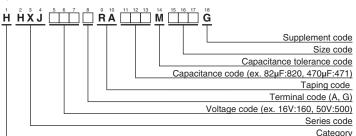
• Size code: F61 to JC5



) 	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
1	JC5	10	12.5	10.3	10.3	11.0	0.7 to 1.1	4.5

: Dummy terminals

◆PART NUMBERING SYSTEM



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

MARKING



Rated voltage symbol

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





STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Size code	ESR (mΩmax./20°C, 100kHz)	Rated ripple current (mArms/125°C, 100kHz)	Part No.
	150	F61	45	1,080	HHXJ160□RA151MF61G
16	220	F80	27	1,800	HHXJ160□RA221MF80G
	470	HA0	20	2,000	HHXJ160□RA471MHA0G
	820	JA0	18	2,800	HHXJ160□RA821MJA0G
	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
0.5	180	F80	30	1,800	HHXJ250□RA181MF80G
25	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

 $[\]square$: 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



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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

potential compensation.

Taping, Lead-preforming, Terminal and Packaging Options

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