



- Guaranteed short time operating temperature at 150°C
- High reliability is realized by hybrid electrolyte
- Endurance with ripple current: 4,000 hours at 135°C
- Rated voltage range: 25 to 63Vdc, Capacitance range: 33 to 560µF
- 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.





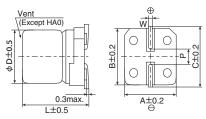
SPECIFICATIONS

Items	Characteristics										
Category	-55 to +135℃										
Temperature Range											
Rated Voltage Range	25 to 63V _{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 (µA), C: Nominal capacitance(µF), V: Rated voltage(V) (at 20℃ after 2 minutes)										
Dissipation Factor	Rated voltage(V _{dc})	25V	35V	50V	63V						
$(\tan \delta)$	$tan \delta$ (Max.)	0.14	0.12	0.10	0.08		(at 20℃, 120Hz)				
Low Temperature	Z(-25°C)/Z(+20°C)≦1.5	(41-10)									
Characteristics	7/550/7/2000/200										
(Max. Impedance Ratio)	, , , ,						(at 100kHz)				
Endurance 1	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated										
						<u>ed</u> voltage) for 4,000 hours at 125℃ o	or 135℃.				
	Capacitance change		% of the in			_					
	D.F. (tan δ)				ified value						
	ESR	≦ 200% of the initial specified value									
	Leakage current										
Endurance 2	The following specifications shall be satisfied when the temperatures of capacitors are restored to 20°C after the rated voltage is applie										
	for 300 hours at 150°C and subjected to DC voltage while the rated ripple current is applied (the peak voltage shall not exceed the rate										
	voltage) for 3,000 hours at										
	Capacitance change	≦±30% of the initial value									
	D.F. (tan δ)	≦ 200% of the initial specified value ≤ 200% of the initial specified value									
	ESR					<u> </u>					
	Leakage current		initial spec								
Shelf Life						rs are restored to 20℃ after exposing					
		efore the	measurem	nent, the	capacitor s	shall be preconditioned by applying vo	oltage according to item 4.1 of JIS				
	C 5101-4.					_					
	Capacitance change		% of the in								
	D.F. (tan δ)	≦ 200% of the initial specified value									
	ESR				ified value	<u>. </u>					
	Leakage current		initial spec								
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		ificant dar								
	Capacitance change		% of the i								
	D.F. (tan δ)				ified value						
	ESR				ified value	2	l				
	Leakage current	≦ The	initial spec	cified valu	ıe						

◆DIMENSIONS [mm]

• Terminal Code : A

• Size code : HA0 to JH0



Terminal Code : G(Vibration resistant structure)

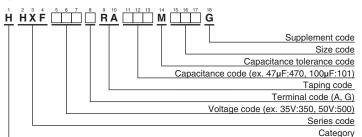
Vent (Except HAO) 0.3max. W W

• Size code : HA0 to JH0

.	Size Code	φD	L	Α	В	С	W	P
	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
	JH0	10	16.5	10.3	10.3	11.0	1.0 to 1.3	4.2

: Dummy terminals

◆PART NUMBERING SYSTEM



◆MARKING



Rated voltage symbol

Rated voltage (Vdc)	Symbol
25	Е
35	V
50	Н
63	J

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





STANDARD RATINGS

wv	Cap	Size code	ESR		ole current /100kHz)	Part No.	
(V _{dc})	(μF)		(mΩmax./20°C, 100kHz)	125℃	135℃		
	150	HA0	18	3,900	2,800	HHXF250□RA151MHA0G	
	220	HA0	18	3,900	2,800	HHXF250□RA221MHA0G	
25	270	JA0	16	4,500	3,300	HHXF250□RA271MJA0G	
25	330	JA0	16	4,500	3,300	HHXF250□RA331MJA0G	
	470	JC5	14	5,100	3,600	HHXF250□RA471MJC5G	
	560	JH0	10	6,000	4,300	HHXF250□RA561MJH0G	
	100	HA0	18	3,900	2,800	HHXF350□RA101MHA0G	
	150	HA0	18	3,900	2,800	HHXF350□RA151MHA0G	
25	150	JA0	16	4,500	3,300	HHXF350□RA151MJA0G	
35	270	JA0	16	4,500	3,300	HHXF350□RA271MJA0G	
	330	JC5	15	4,900	3,500	HHXF350□RA331MJC5G	
	470	JH0	11	5,800	4,100	HHXF350□RA471MJH0G	
	47	HA0	24	3,600	2,500	HHXF500□RA470MHA0G	
	68	HA0	24	3,600	2,500	HHXF500□RA680MHA0G	
50	100	JA0	20	4,300	3,000	HHXF500□RA101MJA0G	
30	120	JA0	20	4,300	3,000	HHXF500□RA121MJA0G	
	150	JC5	17	4,600	3,300	HHXF500□RA151MJC5G	
	220	JH0	13	5,300	3,800	HHXF500□RA221MJH0G	
	33	HA0	27	3,300	2,300	HHXF630□RA330MHA0G	
63	47	HA0	27	3,300	2,300	HHXF630□RA470MHA0G	
	56	JA0	22	4,000	2,800	HHXF630□RA560MJA0G	
	82	JA0	22	4,000	2,800	HHXF630□RA820MJA0G	
	100	JC5	17	4,600	3,300	HHXF630□RA101MJC5G	
	150	JH0	13	5,300	3,800	HHXF630□RA151MJH0G	

 $[\]hfill \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
33 to 150	0.10	0.30	0.50	0.60	0.75	0.75	1.00
220 to 560	0.10	0.40	0.60	0.70	0.80	0.85	1.00