- ●Long life with a new composite sealing structure
- ●Endurance: 8.000 hours at 125°C/135°C
- For automobile modules and other high temperature applications
- High vibration resistance (40G) in combination with vibration resistant structure(terminal code:G)
- OVibration resistance (10G) in combination with standard structure(terminal code:A)
- High temperature reflow soldering (Peak temp.:260°C/2 cycle only or 245°C/3 cycle only)
- Available for JEDEC J-STD-020D reflow soldering.
- Solvent resistant type
- ●RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details.

◆ SPECIFICATIONS

Items	Characteristics								
Category	-55 to +135°C								
Temperature Range Rated Voltage Range									
Capacitance Tolerance	25 to 63Vdc ±20% (M) (at 20°C, 120Hz)								
Leakage Current	±20% (M)								
Leakage Garrent	Where, I : Max. leakage current	(uA) C	Nomina	I capacit	ance (uF) V·Ra	ted voltage (V) (at 20°C after 2 minutes)		
Dissipation Factor	Rated voltage (V _{dc})	25V	35V	50V	63V	<i>y</i> , •	tou voidige (v)		
$(\tan \delta)$	tan δ (Max.)	0.14	0.12	0.10	0.08		(at 20°C, 120Hz)		
Low Temperature	$Z(-25^{\circ}C)/Z(+20^{\circ}C) \le 1.5$								
Characteristics	$Z(-55^{\circ}C)/Z(+20^{\circ}C) \le 2.0$ (at 120Hz)								
(Max. Impedance Ratio) Endurance 1	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the satisfied when the capacitors are restored to 20°C after subjected to 20°C a								
Liladianee i	ripple current is applied (the peak voltage shall not exceed the rated voltage) for 8,000 hours at 125°C or 135°C.								
	Capacitance change	≦ ±30							
	D.F. (tan δ)				ecified v	alue			
	ESR				ecified v				
	Leakage current		initial sp						
Endurance 2						restored	I to 20°C after the test condition that the rated voltage		
	is applied for 300 hours at 150°C and DC voltage with the rated ripple current is applied (the peak voltage shall not exceed the rated								
	voltage) for 7,000 hours at 125°C		-				,		
	Capacitance change	≦ ±30	% of the	initial va	lue				
	D.F. (tan δ)	≦ 200% of the initial specified value							
	ESR	≦ 200	% of the	initial sp	ecified v	alue			
	Leakage current	≦ The	initial sp	pecified v	alue				
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 135°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 va	lue				
	D.F. (tan δ)	≦ 200	% of the	initial sp	ecified v	alue			
	ESR	≦ 200	% of the	initial sp	ecified v	alue			
	Leakage current	≦ The	initial sp	pecified v	alue				
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 sig	nificant o	lamage					
	Capacitance change	≦ ±30	% of the	initial va	lue				
	D.F. (tan δ)	≦ 200	% of the	initial sp	ecified v	alue			
	ESR	≦ 200	% of the	initial sp	ecified v	alue			
	Leakage current	≦ The	initial sp	ecified v	alue				
Vibration	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to vibration test (vibration								
	conditions shown below) at roon	n temper	ature (1	5 to 35°C	5).		1		
	Appearance		nificant o						
	Capacitance change		6 of the i						
	D.F. (tan δ)		initial sp						
	Leakage current ≤ The initial specified value								
	Conditions(Terminal code : A)								
	Vibration frequency range 10 to 55Hz								
	Amplitude or acceleration	One-side amplitudes (peak values) 0.75mm or 98m/s²(10G), Whichever is less sever							
	Sweep rate	10 to 55 to 10Hz in about 1 minutes							
	Direction and period of motion								
	Fixation	Solder the body to the board under the recommended conditions, please contact us for deateil.							
	Conditions(Terminal code : G)								
	Vibration frequency range	10 to 2,000Hz							
	Amplitude or acceleration	One-side amplitudes (peak values) 0.75mm or 392.2m/s² (40G), Whichever is less sever							
	Sweep rate Direction and period of motion	10 to 2,000 to 10Hz in about 20 minutes							
	· · · · · · · · · · · · · · · · · · ·								
	Fixation Solder the body to the board under the recommended conditions, please contact us for deateil.								

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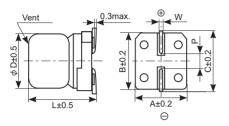


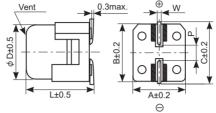
♦ DIMENSIONS [mm]

◆Terminal Code : A◆Size code : JA0

•Terminal Code: G(Vibration resistant structure)

•Size code: JA0

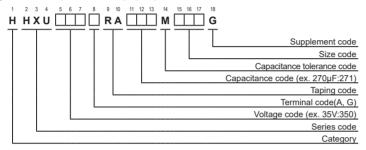




Size code	D	L	Α	В	С	W	Р
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5

: Dummy terminals

◆ PART NUMBERING SYSTEM



◆ MARKING



Rated voltage symbol

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

STANDARD RATINGS

WV Cap (μF)	· ·	Size code	ESR (mΩ max./20°C , 100kHz)	Rated ripp (mArms/		Part No.
	(µF)			125°C	135°C	
25	330	JA0	16	4,500	3,300	HHXU250 ☐ RA331MJA0G
35	270	JA0	16	4,500	3,300	HHXU350 □ RA271MJA0G
50	120	JA0	20	4,300	3,000	HHXU500 □ RA121MJA0G
63	82	JA0	22	4,000	2,800	HHXU630 □ RA820MJA0G

 $[\]square$:Enter the appropriate terminal code.

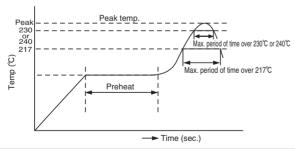
♦ RECOMMENDED REFLOW SOLDERING CONDITIONS

The following conditions are recommended for air convection and infrared reflow soldering on the SMD products on to a glass epoxy circuit boards by cream solder. The dimensions of the glass epoxy boards with resist are 90×50×0.8mm.

The temperatures shown are the surface temperature values on the top of the can and on the capacitor terminals.

When performing reflow twice, be sure to perform the second reflow after confirming that the capacitor has cooled down to room temperature (5 to 35°C) after the first reflow.

Recommended soldering heat conditions



Size Code	Preheat	Time maintained above 217°C	Time maintained above 230°C	Peak temp.	Reflow number
JA0	150 to 180°C	150 to 180°C 120 sec. max.	40 sec. max.	260°C max.	2-cycle allowed
	120 sec. max.		40 Sec. Max.	245°C max.	3-cycles allowed

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