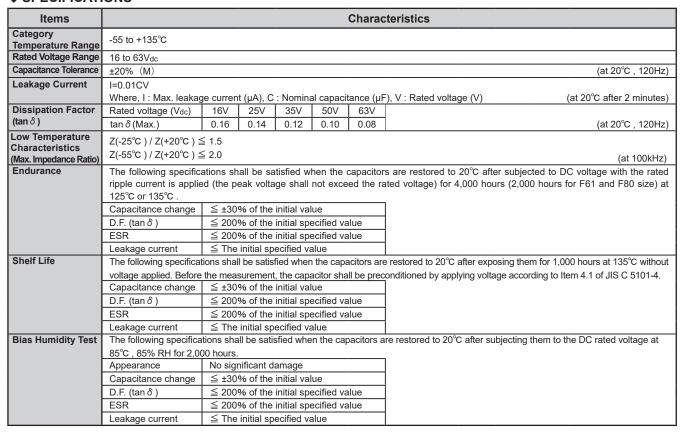
LIVE

- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current: 2,000 to 4,000 hours at 135°C
- ●Rated voltage range : 16 to 63Vdc, Capacitance range : 47 to 470µF
- 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.

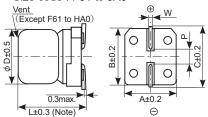
SPECIFICATIONS



◆ DIMENSIONS [mm]

Terminal Code : A

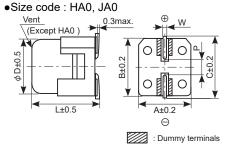
•Size code : F61 to JA0



Note :L±0.5 for HA0, JA0

Size Code	ϕ D	L	Α	В	С	W	Р
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

•Terminal Code : G(Vibration resistant structure)



◆ MARKING



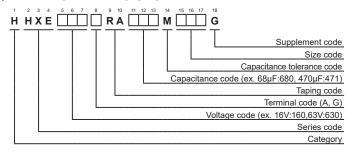
Rated voltage symbol

Trated voltage symbol							
	Rated voltage (V _{dc})	Symbol					
	16	С					
	25	Е					
	35	V					
	50	Н					
	63	J					

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◆ PART NUMBERING SYSTEM



♦ STANDARD RATINGS

WV	Cap (μF)	Size code	ESR (mΩ max./20°C , 100kHz)		ole current /100kHz)	Part No.
(V _{dc})			(IIII IIIax./20 C , 100kHz)	125°C	135°C	
16	82	F61	45	1,700	950	HHXE160ARA820MF61G
	150	F80	27	2,500	1,450	HHXE160ARA151MF80G
	270	HA0	20	3,050	1,700	HHXE160□RA271MHA0G
	470	JA0	18	3,400	2,100	HHXE160□RA471MJA0G
	56	F61	50	1,400	900	HHXE250ARA560MF61G
25	100	F80	30	2,100	1,400	HHXE250ARA101MF80G
	220	HA0	22	2,900	1,600	HHXE250□RA221MHA0G
	330	JA0	20	3,300	2,000	HHXE250□RA331MJA0G
	47	F61	60	1,400	900	HHXE350ARA470MF61G
25	68	F80	35	2,100	1,400	HHXE350ARA680MF80G
35	150	HA0	22	2,900	1,600	HHXE350□RA151MHA0G
	270	JA0	20	3,300	2,000	HHXE350□RA271MJA0G
50	68	HA0	30	2,300	1,250	HHXE500□RA680MHA0G
	100	JA0	25	2,800	1,600	HHXE500□RA101MJA0G
	120	JA0	25	2,800	1,600	HHXE500□RA121MJA0G
	47	HA0	40	2,100	1,100	HHXE630□RA470MHA0G
63	56	JA0	30	2,600	1,400	HHXE630□RA560MJA0G
	82	JA0	30	2,600	1,400	HHXE630□RA820MJA0G

♦ RECOMMENDED REFLOW SOLDERING CONDITIONS

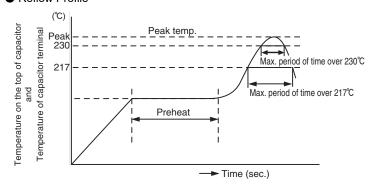
The following conditions are recommended for air convection and infrared reflow soldering on the SMD products on to a glass epoxy circuit boards by cream solder. The dimensions of the glass epoxy boards with resist are 90×50×0.8mm.

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

Reflow should be performed twice or less.

Please ensure that the capacitor became cold enough to the room temperature (5 to 35°C) before the second reflow.

Reflow Profile



Size Code	Preheat	Time maintained above 217°C	Time maintained above 230°C	Peak temp.	Reflow number
F61, F80	150 to 180℃ 120 sec. max.	50 sec. max.	40 sec. max.	260°C max.	2-cycles allowed
HA0, JA0		50 sec. max.	40 sec. max.	260°C max.	1-cycle only
				245°C max.	2-cycles allowed

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