

# HXB Series

- High reliability and high voltage are realized by hybrid electrolyte
- Endurance with ripple current : 5,000 hours at 105°C
- For high reliability applications.  
(Automotive equipment, Base station equipment, etc.)
- RoHS Compliant
- Halogen Free
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

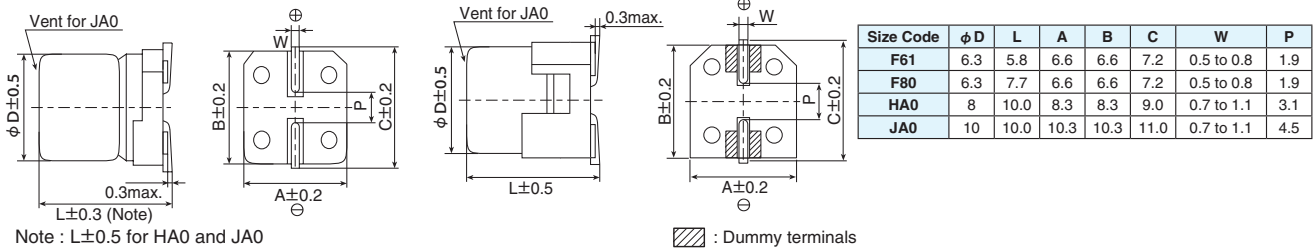


## SPECIFICATIONS

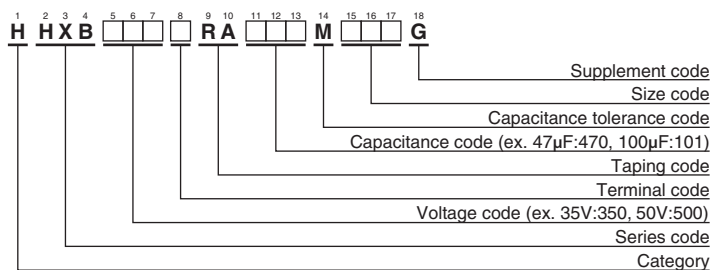
Items	Characteristics
Category	-55 to +105°C
Temperature Range	-55 to +105°C
Rated Voltage Range	16 to 80V <sub>dc</sub>
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)
Leakage Current	I=0.01CV Where, I : Max. leakage current (μA), C: Nominal capacitance(μF), V : Rated voltage(V) (at 20°C after 2 minutes)
Dissipation Factor (tan δ)	Rated voltage(V <sub>dc</sub> ) 16V 25V 35V 50V 63V 80V tan δ (Max.) 0.16 0.14 0.12 0.10 0.08 0.08 (at 20°C, 120Hz)
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 5,000 hours at 105 °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 105 °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

## DIMENSIONS [mm]

- Terminal Code : A
- Size code : F61 to JA0
- Terminal Code : G (Vibration resistant structure)
- Size code : HA0 and JA0



## PART NUMBERING SYSTEM



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

## MARKING



## Rated voltage symbol

Rated voltage (V <sub>dc</sub> )	Symbol
16	C
25	E
35	V
50	H
63	J
80	K

**HXB**Series

**◆STANDARD RATINGS**

WV (V <sub>dc</sub> )	Cap (μF)	Size code	ESR (mΩ max./20°C, 100kHz)	Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)	Part No.
16	82	F61	45	1,600	HHXB160ARA820MF61G
	150	F80	27	2,200	HHXB160ARA151MF80G
	270	HA0	22	2,500	HHXB160□RA271MHA0G
	470	JA0	18	2,600	HHXB160□RA471MJA0G
25	47	F61	50	1,300	HHXB250ARA470MF61G
	56	F61	50	1,300	HHXB250ARA560MF61G
	68	F80	30	2,000	HHXB250ARA680MF80G
	100	F80	30	2,000	HHXB250ARA101MF80G
	150	HA0	27	2,300	HHXB250□RA151MHA0G
	220	HA0	27	2,300	HHXB250□RA221MHA0G
	270	JA0	20	2,500	HHXB250□RA271MJA0G
	330	JA0	20	2,500	HHXB250□RA331MJA0G
35	27	F61	60	1,300	HHXB350ARA270MF61G
	47	F61	60	1,300	HHXB350ARA470MF61G
	47	F80	35	2,000	HHXB350ARA470MF80G
	68	F80	35	2,000	HHXB350ARA680MF80G
	100	HA0	27	2,300	HHXB350□RA101MHA0G
	150	HA0	27	2,300	HHXB350□RA151MHA0G
	150	JA0	20	2,500	HHXB350□RA151MJA0G
	270	JA0	20	2,500	HHXB350□RA271MJA0G
50	10	F61	80	1,100	HHXB500ARA100MF61G
	15	F80	40	1,600	HHXB500ARA150MF80G
	22	F61	80	1,100	HHXB500ARA220MF61G
	33	F80	40	1,600	HHXB500ARA330MF80G
	33	HA0	30	1,800	HHXB500□RA330MHA0G
	47	HA0	30	1,800	HHXB500□RA470MHA0G
	56	JA0	25	2,000	HHXB500□RA560MJA0G
	68	HA0	30	1,800	HHXB500□RA680MHA0G
	100	JA0	25	2,000	HHXB500□RA101MJA0G
63	6.8	F61	120	1,000	HHXB630ARA6R8MF61G
	10	F61	120	1,000	HHXB630ARA100MF61G
	10	F80	80	1,500	HHXB630ARA100MF80G
	22	F80	80	1,500	HHXB630ARA220MF80G
	22	HA0	40	1,600	HHXB630□RA220MHA0G
	33	HA0	40	1,600	HHXB630□RA330MHA0G
	33	JA0	30	1,800	HHXB630□RA330MJA0G
	56	JA0	30	1,800	HHXB630□RA560MJA0G
	80	JA0	30	1,800	HHXB630□RA800MJA0G
80	22	HA0	45	1,600	HHXB800□RA220MHA0G
	39	JA0	35	1,700	HHXB800□RA390MJA0G

□ : Enter the appropriate terminal code.