

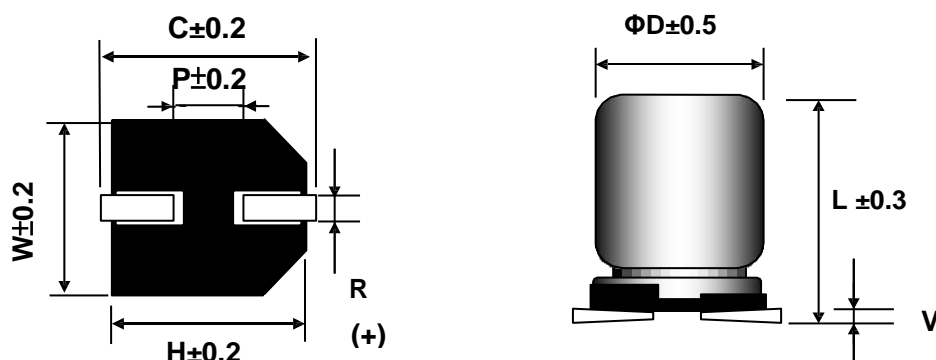
## Aluminum Electrolytic Capacitors

### HSB Series

#### Features

- Low ESR.
- High Voltage, Long Life..
- 125°C ,2,000 to 4,000hrs.
- RoHS Compliance.
- For automotive mouldes and other high temperature applications

#### 1.1 Product Dimensions (mm)



Size	ΦD	L	W	H	C	R	P	V max
6.3×7.7	6.3	7.7	6.6	6.6	7.3	0.5~0.8	2.1	0.3
8×10	8.0	10.5	8.3	8.3	9.0	0.7~1.1	3.2	0.3
10×10	10.0	10.5	10.3	10.3	11.0	0.7~1.3	4.5	0.3
10×12	10.0	12.5	10.3	10.3	11.0	0.7~1.3	4.5	0.3

#### 1.2 Product E.S.R & Maximum Permissible Ripple Current

Part No.	Cap. (μF)	Cap. Tol. (%)	Rated Volt. (V-DC)	Oper. Temp. (°C)	Nominal Case Size D*L(mm)	Leakage Current Max (μA)	E.S.R 100K Hz Max (mΩ)	D.F. MAX (%)	R.C 100K Hz (mA rms)	Load Life (Hours)
HSB063M470GABPKKV00R	47	±20	63	125	10*10.5	30	30	16	1200	4000

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#### Remarks:

Items	Characteristics
1. Capacitance Test:	at 20°C, 120 Hz.
2. Operating temperature:	-55°C ~ +125°C
3. ESR Test:	at 20°C, 100K Hz.
4. Leakage Current Test:	at 20°C for 2 minutes.
5. Dissipation Factor Test:	at 20°C, 120 Hz.
6. Ripple Current Test:	at 125°C, 100 KHz ;
7. Load Life:	4000 hours, with application of working voltage at 125°C . (Φ D ≤ 6.3mm, 2000 hours; Φ D=8,10mm, 4000hours).
Capacitance Change:	≤ ±30% of the initial value;
tanδ:	≤ 200% of the initial specified value;
ESR:	≤ 200% of the initial specified value;
Leakage Current:	≤ The initial specified value;
8. Moisture Resistance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjecting them to store 60 °C, 90 to 95% RH for 1000 hours, without DC applied.
Capacitance Change :	≤ ±30% of the initial value;
tanδ:	≤ 200% of the initial specified value;
ESR:	≤ 200% of the initial specified value;
Leakage Current :	≤ The initial specified value;

#### Specifications

Items	Characteristics
Voltage Range	16V~125
Leakage Current	See characteristic table (After rated voltage applied for 2 minutes)
Dissipation Factor	Measurement Frequency: 120Hz. Temperature: 20°C Please see the attached characteristics list

#### FREQUENCY COEFFICIENT FOR RIPPLE CURRENT

Frequency(Hz)	100 ≤ F < 1K	1K ≤ F < 10K	10K ≤ F < 100K	100K ≤ F
Capacitance(uF)				
4.7 < C ≤ 33	0.05	0.32	0.67	1.00
> 33	0.10	0.35	0.70	1.00

# Sales and Support

Infinex Headquarters  
12455-G Research Blvd.  
Austin, TX USA 78759

[sales@infinex.com](mailto:sales@infinex.com)  
[engineering@infinex.com](mailto:engineering@infinex.com)

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