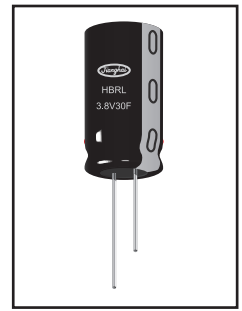


Features

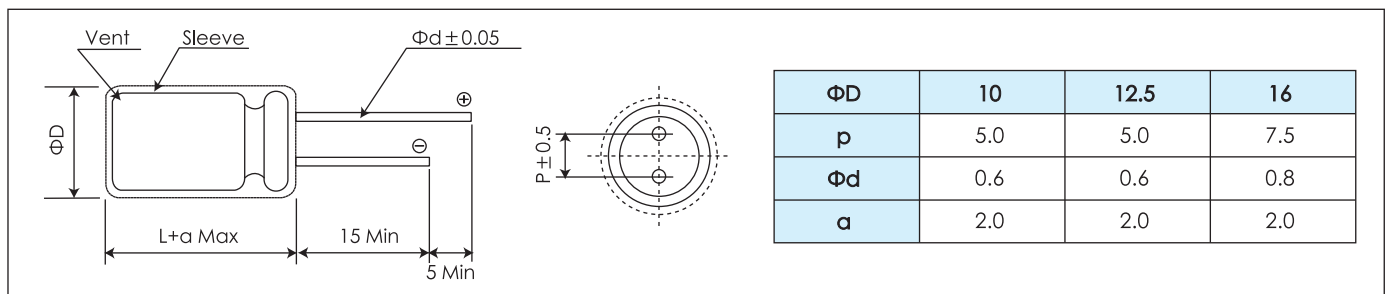
- Lower ESR ,
- Wider temperature range
- RoHS compliant
- Consumer electronic
- Pulse power
- Hold-up power



Items	Characteristics		
Rated Voltage	3.8V~2.5V		
Operating Temperature Range	-25 ~+60°C		
Surge Voltage	4.2V		
Capacitance Range	30~220 F		
Capacitance Tolerance (25°C)	-20~+20%		
Temperature Characteristics	The specifications shall be met at category temperature range form -25°C to 60°C	Capacitance Change	Within 50% of the value at 25°C
		ESR	Less than 1000% of the value at 25°C
High Temperature Loaded	The specifications shall be met after rated voltage applied at 60°C for 1000 hours	Capacitance Change	Within 30% of the initial value
		ESR	Less than 200% of specified value
High Temperature Storage	The specifications shall be met after storage at 60°C for 1000 hours	Capacitance Change	Within 30% of the initial value
		ESR	Less than 200% of specified value
Cycle Life	The specifications shall be met after 250,000 cycles at 25°C, cycle of charge/-discharge from 3.8~2.5V	Capacitance Change	Within 30% of the initial value
		ESR	Less than 200% of specified value

Dimensions

mm



Standard Ratings for HBRL Series

U _R (Surge Voltage) Code	Rated Capacitance 25°C	Impedance		Rated Current	Self Discharge Current	Size ΦD×L	P/N
		ESR _{DC}	ESR _{AC} 1KHz				
(V)	(F)	(mΩ)	(mΩ)	(A)	(mA)	(mm)	-
3.8 (4.0) 3R8	30	550	250	0.15	1.5	10×16	SCCHBL3R8306MRH100016E
	70	250	100	0.35	2.5	10×25	SCCHBL3R8706MRH100025E
	120	200	80	0.6	5.0	12.5×25	SCCHBL3R8127MRH125025E
	220	100	60	1.1	8.0	16×25	SCCHBL3R8227MRH160025E