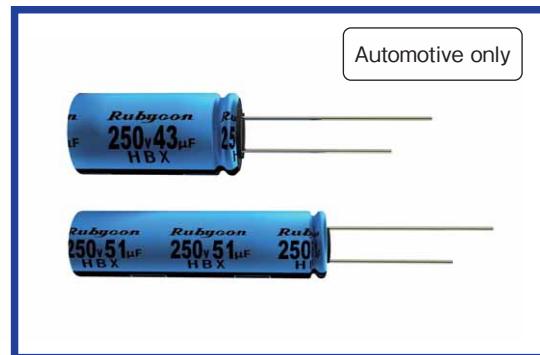


HBX SERIES

UPGRADE

Load Life: 125°C 3000 hours

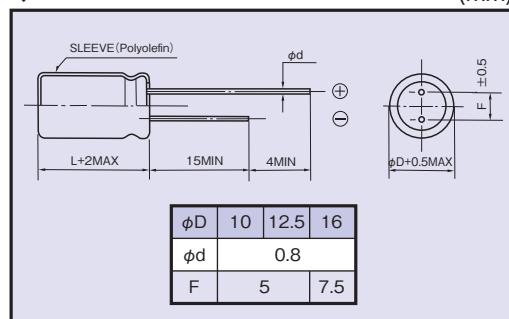
- High Ripple Current, Low ESR, High Reliability.
- Suitable for DC Link of high voltage inverter.
- AEC-Q200.

RoHS
compliance

◆SPECIFICATIONS

Items	Characteristics										
Category Temperature Range	−40~+125°C										
Rated Voltage Range	250, 275Vdc										
Capacitance Tolerance	±20% (20°C, 120Hz)										
Leakage Current(MAX)	I=0.04CV+100μA(After 1 minute) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)										
Dissipation Factor(MAX) (tanδ)	0.15 (20°C, 120Hz)										
Endurance	After applying rated voltage with rated ripple current for 3000 hours at 125°C, the capacitors shall meet the following requirements. <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">Capacitance Change</td> <td style="padding: 2px;">Within ±20% of the initial value.</td> </tr> <tr> <td style="padding: 2px;">Dissipation Factor</td> <td style="padding: 2px;">Not more than 200% of the specified value.</td> </tr> <tr> <td style="padding: 2px;">Leakage Current</td> <td style="padding: 2px;">Not more than the specified value.</td> </tr> </table>		Capacitance Change	Within ±20% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.			
Capacitance Change	Within ±20% of the initial value.										
Dissipation Factor	Not more than 200% of the specified value.										
Leakage Current	Not more than the specified value.										
Low Temperature Stability Impedance Ratio(MAX)	<table border="1" style="border-collapse: collapse; width: 100px;"> <tr> <td style="padding: 2px;">Rated Voltage (Vdc)</td> <td style="padding: 2px;">250</td> <td style="padding: 2px;">275</td> </tr> <tr> <td style="padding: 2px;">Z(−25°C)/Z(20°C)</td> <td style="padding: 2px;">3</td> <td style="padding: 2px;">3</td> </tr> <tr> <td style="padding: 2px;">Z(−40°C)/Z(20°C)</td> <td style="padding: 2px;">6</td> <td style="padding: 2px;">6</td> </tr> </table>	Rated Voltage (Vdc)	250	275	Z(−25°C)/Z(20°C)	3	3	Z(−40°C)/Z(20°C)	6	6	(120Hz)
Rated Voltage (Vdc)	250	275									
Z(−25°C)/Z(20°C)	3	3									
Z(−40°C)/Z(20°C)	6	6									

◆DIMENSIONS (mm)

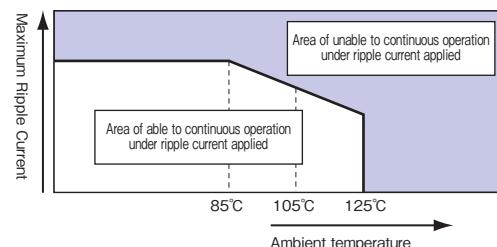


◆MULTIPLIER FOR RIPPLE CURRENT

Frequency (Hz)	120	1k	10k	100k≤
Coefficient	0.45	0.80	1.00	1.00

◆OPTION

Standard item is blank.



◆STANDARD SIZE

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated ripple current I _o (mA r.m.s./125°C,100kHz)	MAX ripple current I _{MAX} (mA r.m.s./125°C,100kHz)	MAX ripple current I _{MAX} (mA r.m.s./105°C,100kHz)	Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L (mm)	Rated ripple current I _o (mA r.m.s./125°C,100kHz)	MAX ripple current I _{MAX} (mA r.m.s./125°C,100kHz)	MAX ripple current I _{MAX} (mA r.m.s./105°C,100kHz)
250	30	12.5×20	1100	1100	1870	275	30	12.5×20	1020	1020	1730
	36	10×30	1330	1330	2260		36	10×30	1240	1240	2100
	43	10×35	1550	1550	2630		43	10×35	1440	1440	2440
	43	12.5×25	1410	1410	2390		43	12.5×25	1310	1310	2220
	51	10×40	1760	1760	2990		51	10×40	1640	1640	2780
	51	16×20	1440	1440	2440		51	16×20	1350	1350	2290
	56	12.5×30	1710	1710	2900		56	12.5×30	1590	1590	2700

Rated ripple current I_o : Ripple current continuous operation within endurance lifetime.Maximum ripple current I_{MAX} : Maximum ripple current continuous operation. Estimated lifetime complies with our lifetime calculation formula.

◆PART NUMBER

□□□ HBX □□□□□ M □□□ Lead Forming D×L
 Rated Voltage Series Capacitance Tolerance Option Case Size