

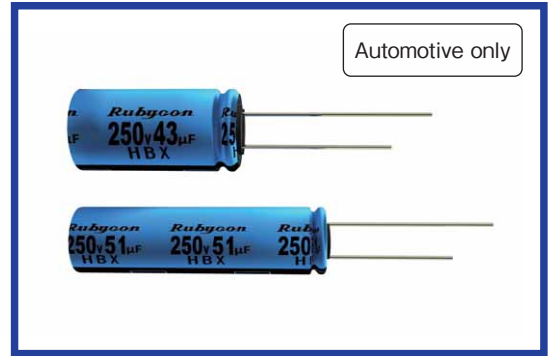
HBX SERIES

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

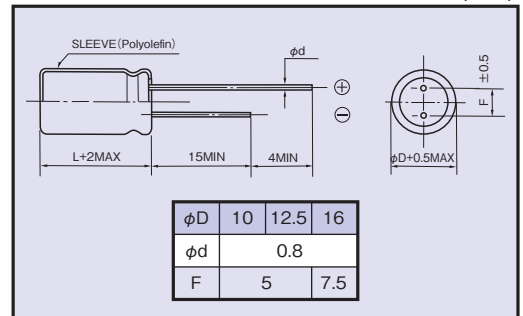


SPECIFICATIONS

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"> <tr> <td>Capacitance Change</td> <td>Within ±20% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>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"> <tr> <td>Rated Voltage (Vdc)</td> <td>250</td> <td>275</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>3</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>6</td> <td>6</td> <td></td> </tr> </table>	Rated Voltage (Vdc)	250	275	(120Hz)	Z(-25°C)/Z(20°C)	3	3		Z(-40°C)/Z(20°C)	6	6	
Rated Voltage (Vdc)	250	275	(120Hz)										
Z(-25°C)/Z(20°C)	3	3											
Z(-40°C)/Z(20°C)	6	6											

DIMENSIONS

(mm)

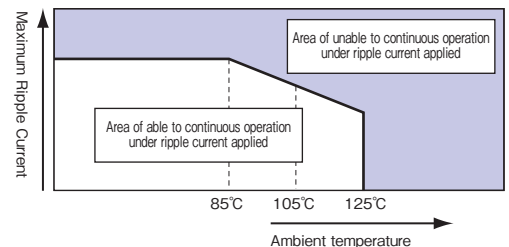


MULTIPLIER FOR RIPPLE CURRENT

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			Rated Voltage (Vdc)	Capacitance (µF)	Size φD×L (mm)	Rated ripple current		
			I _o (mA r.m.s./125°C, 100kHz)	I _{MAX} (mA r.m.s./125°C, 100kHz)	I _{MAX} (mA r.m.s./105°C, 100kHz)				I _o (mA r.m.s./125°C, 100kHz)	I _{MAX} (mA r.m.s./125°C, 100kHz)	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

