

HBX SERIES

Load Life: 125°C 3000 hours

◆FEATURES

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



◆SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-40~+125℃									
Rated Voltage Range	250Vdc									
Capacitance Tolerance	±20% (20℃, 120Hz)									
Leakage Current(MAX)	I=0.04CV+100μA (After 1 minutes) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(Vdc)									
(tanδ) Dissipation Factor(MAX)	0.15 (20℃, 120Hz)									
Endurance	After applying rated voltage with rated ripple current for 3000 hours at 125℃, the capacitors shall meet the following requirements. <table><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.	
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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><tr><td>Rated Voltage (Vdc)</td><td>250</td><td rowspan="3">(120Hz)</td></tr><tr><td>Z(-25℃)/Z(20℃)</td><td>3</td></tr><tr><td>Z(-40℃)/Z(20℃)</td><td>6</td></tr></table>			Rated Voltage (Vdc)	250	(120Hz)	Z(-25℃)/Z(20℃)	3	Z(-40℃)/Z(20℃)	6
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◆MULTIPLIER FOR RIPPLE CURRENT

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

◆OPTION

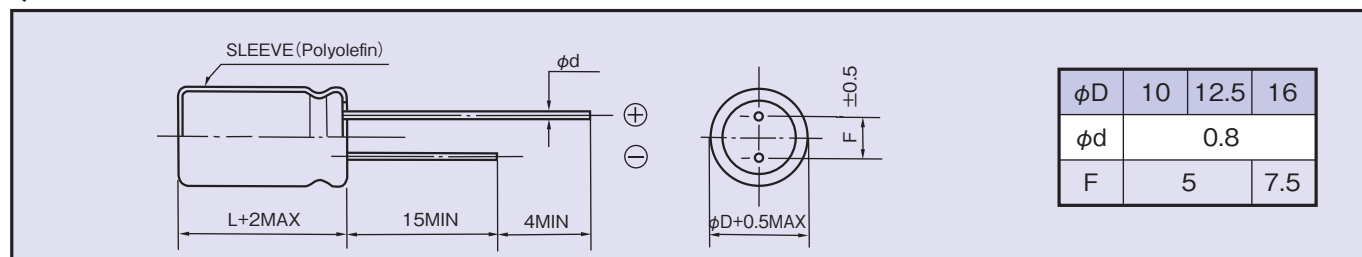
Standard item is blank.

◆PART NUMBER

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

◆ **DIMENSIONS**

(mm)



◆ **STANDARD SIZE**

Rated Voltage (Vdc)	Capacitance (μF)	Size $\phi D \times L$ (mm)	Rated ripple current I_0 (mA rms / 125°C, 100kHz)	MAX ripple current I_{MAX} (mA rms / 125°C, 100kHz)	MAX ripple current I_{MAX} (mA rms / 105°C, 100kHz)
250	30	12.5×20	1100	1100	1870
	36	10×30	1330	1330	2260
	43	10×35	1550	1550	2630
	43	12.5×25	1410	1410	2390
	51	10×40	1760	1760	2990
	51	16×20	1440	1440	2440
	56	12.5×30	1710	1710	2900

Rated ripple current I_0 : 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.

