YB Series NF

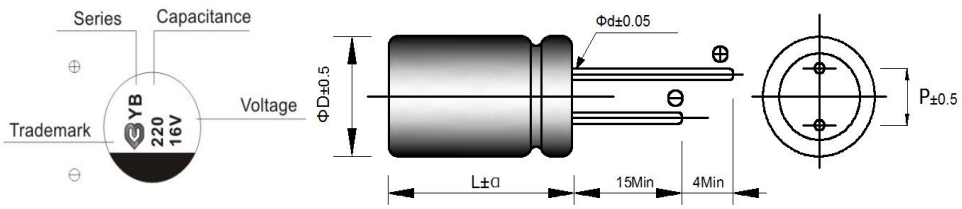
●Low ESR ● High Voltage, Long Life. ● 125℃,2,000~4,000hrs. ● RoHS compliant

◆ 规格表 Specifications

项目Items	特性参数Characteristics		
使用温度范围 Category Temperture Range	-55 ~ +125℃		
额定工作电压范围 Rated Voltage Range	16 ~ 50 V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
漏电流 Leakage Current	施加额定工作电压2分钟后读数，小于或等于规格值 (20℃) I≤0.01CV 或10μA（取大值）（The bigger） After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
损耗角正切值tanδ Dissipation Factor	小于或等于规格 Less than or equal to the specified (at 20℃,120Hz)		
温度特性 Low Temperture Characteristics (Max.Impedance Ratio)	Z(-55℃)/Z(+20℃)	≦ 0.75 to 1.5	(100KHz)
	Z+125℃)/Z(+20℃)	≦ 0.75 to 2.0	
耐久性 Endurence	必须满足以下参数：电容在20度的环境下储存，在125度的环境下施加额定电压至2000到4000小时。 ΦD=Φ6.3=2,000hrs, ΦD≧Φ8=4,000hrs; The following specifications shall be satisfied when the capacitors are restored to 20℃after the rated voltage is applied for2,000 to 4,000 hours at 125℃. ΦD=Φ6.3=2,000hrs, ΦD≧Φ8=4,000hrs;		
	Appearance	No significant damage	
	Capacitance change	≦±30% of the initial value	
	D.F.(tanδ)	≦200% of the specified value	
	ESR	≦200% of the specified value	
	Leakage current	≦The specified value	
Damp Heat (Steady State) 耐湿负荷特性	在60℃ 温度，湿度90%~95%RH的环境中，施加额定电压1000小时后，恢复到20℃后，产品性能应满足以下要求 The specifications listed below shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 60℃, 90%～ 95% RH.		
	Appearance	No significant damage	
	Capacitance change	≦±30% of the initial value	
	D.F.(tanδ)	≦200% of the specified value	
	ESR	≦200% of the specified value	
	Leakage current	≦The specified value	
浪涌电压特性 (Surge Voltage)	浪涌电压=额定电压* 1.15(V) Surge Voltage=Rated voltage * 1.15(V) 在通过1KΩ的电阻保护下，15~35℃ 施加浪涌电压30秒，并且放电5分钟30秒，电容器必须满足完成1000次的持续充放循环。 The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35℃ for 30 seconds through aprotective resistor (R=1kΩ) and discharge for 5 minutes 30seconds		
	Appearance	No significant damage	
	Capacitance change	≦±30% of the initial value	
	D.F.(tanδ)	≦200% of the specified value	
	ESR	≦200% of the specified value	
	Leakage current	≦The specified value	

◆ 外形图Dimensions (mm)

(Unit:mm)



Coated Case	6.3*7.2	8*9.5	10*9.5	10*11.5
ΦD	6.3	8	10	10
L	L+1.5Max			
Φd	0.5	0.5	0.6	0.6
p	2.5	3.5	5.0	5.0

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◆ 尺寸与最大纹波电流一览表Standard Ratings

Rated voltage (V)	Rated capacitance(uF)	Case size ΦD*L(mm)	Leakage carrent (uA)	ESR(mΩ) at 20℃,100 KHz	Rated ripple current (mArms/125℃/100kHz)	tanδ （120Hz）
16	120	6.3*7.2	19.2	40	1100	0.16
	270	8*9.5	43.2	26	1500	0.16
	470	10*9.5	75.2	21	2000	0.16
	560	10*11.5	89.6	15	2300	0.16
25	68	6.3*7.2	17	45	1000	0.16
	150	8*9.5	37.5	27	1300	0.16
	270	10*9.5	67.5	22	1500	0.16
	330	10*11.5	82.5	16	1700	0.16
35	47	6.3*7.2	16.45	60	900	0.16
	100	8*9.5	35	30	1200	0.16
	150	10*9.5	52.5	23	1400	0.16
	220	10*11.5	77	17	1600	0.16
40	27	6.3*7.2	10.8	70	900	0.16
	56	8*9.5	22.4	32	1200	0.16
	100	10*9.5	40	24	1400	0.16
	120	10*11.5	48	18	1600	0.16
50	15	6.3*7.2	10	80	800	0.16
	33	8*9.5	16.5	35	1100	0.16
	56	10*9.5	28	25	1300	0.16
	82	10*11.5	41	19	1500	0.16

◆ 纹波电流补正系数 Rated Ripple Current Coefficient

频率Frequency(Hz)	100Hz≤f＜1kHz	1kHz≤f＜10kHz	10kHz≤f＜100kHz	100kHz≤f
4.7＜C≦33	0.05	0.32	0.67	1.00
C＞33	0.10	0.35	0.70	1.00