



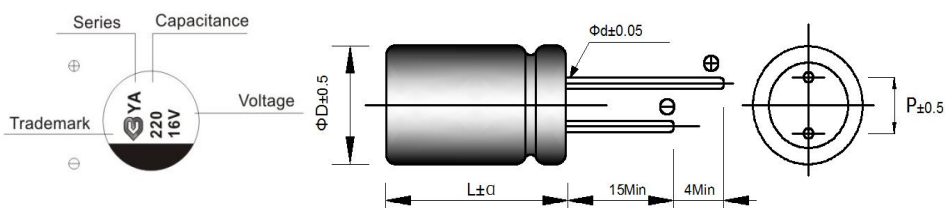
YA Series NFW

- Low ESR
- High Voltage, Long Life.
- 105°C, 5,000~10,000hrs.
- RoHS compliant

◆ 规格表 Specifications

项目 Items	特性参数 Characteristics		
使用温度范围 Category Temperature Range	-55 ~ +105°C		
额定工作电压范围 Rated Voltage Range	16 ~ 125 V		
静电容量允许偏差 Capacitance tolerance	±20%(M) (at 20°C, 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°C) I ≤ 0.01CV 或 10μA (取大值) (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.		
损耗角正切值 tanδ Dissipation Factor	小于或等于规格 (at 20°C, 120Hz) Less than or equal to the specified		
温度特性 Low Temperature Characteristics (Max. Impedance Ratio)	Z(-55°C)/Z(+20°C)	≅ 0.75 to 1.5	(100KHz)
	Z(+105°C)/Z(+20°C)	≅ 0.75 to 2.0	
耐久性 Endurance	必须满足以下参数: 电容在20度的环境下储存, 在105度的环境下施加额定电压至5000到10000小时。 ΦD=Φ6.3=5,000hrs, ΦD≧Φ8=10,000hrs; The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 5,000 to 10,000 hours at 105°C. ΦD=Φ6.3=5,000hrs, ΦD≧Φ8=10,000hrs;		
	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	
耐湿负荷特性 Damp Heat (Steady State)	在60°C 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°C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°C, 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°C 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次的持续充放电循环。 The capacitors shall be subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 15~35°C for 30 seconds through a protective 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

YA Series

◆ 尺寸与最大纹波电流一览表 Standard Ratings

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD*L(mm)	Leakage current (μA)	ESR(mΩ) at 20°C, 100 KHz	Rated ripple current (mA _{rms} /105°C/100kHz)	tanδ (120Hz)
16	120	6.3*7.2	19.2	40	1500	0.16
	270	8*9.5	43.2	26	2000	0.16
	470	10*9.5	75.2	21	2600	0.16
	560	10*11.5	89.6	15	3000	0.16
25	68	6.3*7.2	17	45	1400	0.16
	150	8*9.5	37.5	27	1900	0.16
	270	10*9.5	67.5	22	2500	0.16
	330	10*11.5	82.5	16	2900	0.16
35	47	6.3*7.2	16.45	60	1300	0.16
	100	8*9.5	35	30	1800	0.16
	150	10*9.5	52.5	23	2400	0.16
	220	10*11.5	77	17	2800	0.16
40	27	6.3*7.2	10.8	70	1200	0.16
	56	8*9.5	22.4	32	1700	0.16
	100	10*9.5	40	24	2400	0.16
	120	10*11.5	48	18	2700	0.16
50	15	6.3*7.2	10	80	1200	0.16
	33	8*9.5	16.5	35	1600	0.16
	56	10*9.5	28	25	2300	0.16
	82	10*11.5	41	19	2600	0.16
63	10	6.3*7.2	10	100	1000	0.16
	22	8*9.5	13.86	40	1500	0.16
	33	8*9.5	20.79	40	1500	0.16
	33	10*9.5	20.79	30	2100	0.16
	47	10*9.5	29.61	30	2100	0.16
	56	10*11.5	35.28	22	2400	0.16
80	12	10*9.5	10	70	1600	0.16
	15	10*9.5	12	70	1600	0.16
	18	10*11.5	14.4	50	1800	0.16
100	10	10*9.5	10	80	1400	0.16
	12	10*9.5	12	80	1400	0.16
	15	10*11.5	15	60	1600	0.16
125	10	10*9.5	12.5	90	1200	0.16

◆ 纹波电流修正系数 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