

YF* Series

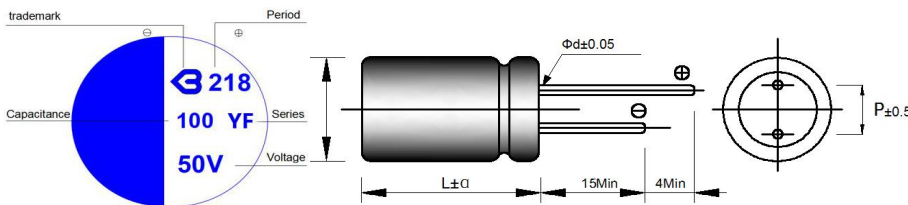


- High reliability hybrid capacitors for automotive equipment electronics
- Endurance with ripple current : 1000 hours at 150°C
- High Voltage: 16~250V
- RoHS compliant
- Halogen Free
- AEC-Q200 compliant

◆ Specifications

Items	Characteristics		
Category			
Temperature Range	-55 ~ +150°C		
Rated Voltage Range	25~63V		
Capacitance tolerance	±20%(M) (at 20°C,120Hz)		
Leakage Current	≤0.01CV or 10μA (The bigger) After 2 minutes applied for rated voltage at 20°C, less than or equal to the specified value.		
tanδ	Less than or equal to the specified (at 20°C,120Hz)		
Dissipation Factor			
Low Temperature Characteristics (Max.Impedance Ratio)	Z(-55°C)/Z(+20°C)	≅ 0.75 to 1.5	(100KHz)
	Z(+150°C)/Z(+20°C)	≅ 0.75 to 2.0	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 1,000 hours at 150°C.		
	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)	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	
(Surge Voltage)	Surge Voltage=Rated voltage * 1.25(V) 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	

◆ Dimensions (mm)



(Unit:mm)

Coated Case	8*10.2	10*10.2
ΦD	8	10
L	L ± 1.5Max	
Φd	0.5	0.6
p	3.5	5.0

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance(μ F)	Case size Φ D*L(mm)	Leakage current (μ A)	ESR(m Ω) at 20°C, 100 KHz	Rated ripple current (mA _{rms} /150°C/100kHz)	tan δ (120Hz)
25	150	8*10	37.5	25	800	0.14
	270	10*10	67.5	20	1000	0.14
35	100	8*10	35.0	30	800	0.12
	150	10*10	52.5	20	950	0.12
50	56	8*10	28.0	35	700	0.10
	100	10*10	50.0	25	900	0.10
63	33	8*10	20.8	40	650	0.08
	56	10*10	35.3	30	850	0.08

◆ Rated Ripple Current Coefficient

Frequency(Hz)	100Hz \leq f<1kHz	1kHz \leq f<10kHz	10kHz \leq f<100kHz	100kHz \leq f
4.7<C \leq 33	0.05	0.32	0.67	1.00
33<C	0.10	0.35	0.70	1.00