

TE* Series

- Low ESR
- High Voltage, Long Life.
- 145°C, 2,000hrs.
- RoHS compliant
- AEC-Q200 qualified

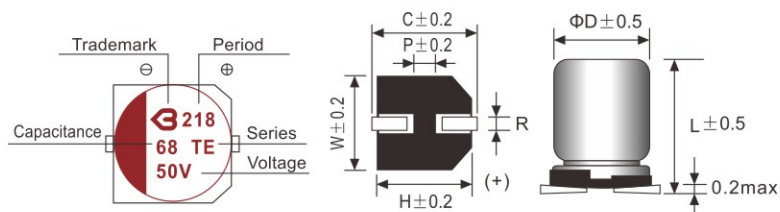


◆ Specifications

Items	Characteristics		
Category Temperture Range	-55 ~ +145℃		
Rated Voltage Range	25~63V		
Capacitance tolerance	±20%(M) (at 20℃,120Hz)		
Leakage Current	I≤0.01CV or 10μA (The bigger) After 2 minutes applied for rated voltage at 20℃, less than or equal to the specified value.		
tan δ Dissipation Factor	Less than or equal to the specified (at 20℃,120Hz)		
Low Temperture Characteristics (Max.Impedance Ratio)	Z(-55℃)/Z(+20℃)	≒0.75 to 1.5	(100KHz)
	Z(+145℃)/Z(+20℃)	≒0.75 to 2.0	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 2,000 hours at 145℃.		
	Appearance	No significant damage	
	Capacitance change	≒±30% of the initial value	
	D.F.(tan δ)	≒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℃ 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.(tan δ)	≒200% of the specified value	
	ESR	≒200% of the specified value	
	Leakage current	≒The specified value	
(Surge Voltage)	Surge Voltage=Rated voltage * 1.15(V) 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 30 seconds		
	Appearance	No significant damage	
	Capacitance change	≒±30% of the initial value	
	D.F.(tan δ)	≒200% of the specified value	
	ESR	≒200% of the specified value	
	Leakage current	≒The specified value	

◆ Dimensions (mm)

(Unit:mm)



Size	ΦD	L	W	H	C	R	P
8*10.5	8	10.5	8.3	8.3	9	0.7~1.1	3.2
10*10.5	10	10.5	10.3	10.3	11	0.7~1.3	4.6

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◆ Standard Ratings

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD×L(mm)	Leakage current (μA)	ESR(mΩ) at 20℃, 100 kHz	Rated ripple current (mA _{rms} /145℃/100kHz)	Tan δ (120Hz)
25	220	8*10.5	55.0	27	700	0.14
	330	10*10.5	82.5	20	900	0.14
35	150	8*10.5	52.5	27	700	0.12
	270	10*10.5	94.5	20	900	0.12
50	68	8*10.5	34.0	30	600	0.10
	100	10*10.5	50.0	28	800	0.10
63	33	8*10.5	20.8	40	600	0.08
	56	10*10.5	35.28	30	800	0.08
	82	10*10.5	51.66	30	800	0.08

◆ Rated Ripple Current Coefficient

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
33 < C	0.10	0.35	0.70	1.00