TH Series

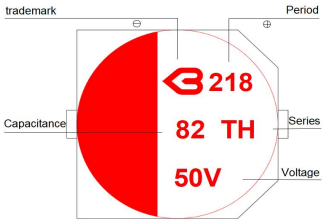
● Low ESR ● High Voltage, Long Life. ● 135°C,1,000~3,000hrs. ● RoHS compliant

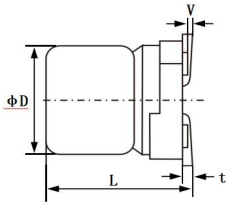
● AEC-Q200 qualified

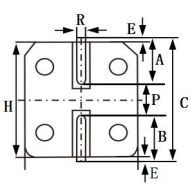
◆ Specifications

Items	Characteristics		
Category Temperture Range	-55 ~ +135℃		
Rated Voltage Range	16 ~ 250 V		
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.		
Dissipation Factor	Less than or equal to the specified		
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	
Endurence	ΦD=Φ6.3=1,000hrs, ΦD=Φ8=2,000hrs, ΦD≧Φ10=3,000hrs; The following specifications shall be satisfied when the capacitors are restored to 20℃after the rated voltage is applied for1,000 to 3,000 hours at 135℃. ΦD=Φ6.3=1,000hrs,ΦD=Φ8=2,000hrs, ΦD≧Φ10=3,000hrs;		
	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)	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	
(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 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	

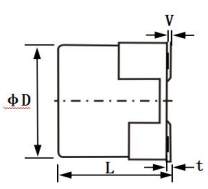
◆ Dimensions (mm)

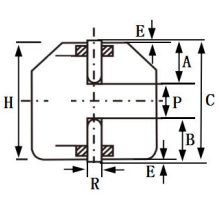






(Unit:mm)





Vibration resistant structure

Size	ΦD	L	W	H	C	R	P
6.3*11.5	6.3	11.5	6.6	6.6	7.3	0.5~0.8	2.1
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
10*12.5	10	12.5	10.3	10.3	11	0.7~1.3	4.6

TH Series

◆ Standard Ratings

Rated voltage (V)	Rated capacitance(μF)	Case size ΦD*L(mm)	Leakage carrent (μA)	ESR(mΩ) at 20℃,100 KHz	Rated ripple current (mArms/135℃/100kHz)	tanδ （120Hz）
16	100	6.3*5.8	16.0	30	1000	0.16
	220	6.3*7.7	35.2	25	1300	0.16
	470	8*10.5	75.2	15	1800	0.16
25	100	6.3*5.8	25.0	30	1000	0.16
	220	8*10.5	55.0	25	1500	0.16
	330	10*10.5	82.5	20	2000	0.16
35	47	6.3*5.8	16.5	50	800	0.16
	100	8*10.5	35.0	30	1000	0.16
	220	8*10.5	77.0	25	1600	0.16
50	47	8*10.5	10.0	30	1300	0.16
	100	10*10.5	50.0	25	2500	0.16
	220	10*16.5	110.0	16	3600	0.16
63	100	10*12.5	10.0	20	3200	0.16
	150	10*16.5	94.5	16	3600	0.16
80	47	10*12.5	10.0	30	2500	0.16
	68	10*12.5	54.4	25	2800	0.16
	100	10*16.5	80.0	20	3200	0.16
100	47	10*16.5	47.0	30	2300	0.16
160	6.8	10*12.5	10.9	150	1000	0.16
250	4.7	10*12.5	11.8	465	800	0.16

◆ 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