

导电性高分子铝固态电解电容器

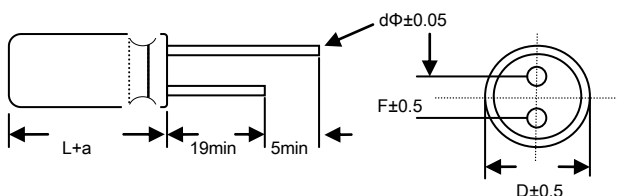
TC series

- Small size
- By using functional polymer cathode, Frequency & Temp. characteristics are greatly improved
- Ultra ESR at a high frequency range
- Load life of 2000hrs at 105°C
- Adapted to the ROHS directive
- The crust of nylon

■SPECIFICATIONS

Item	Performance Characteristics	
Operating	-55°C~+105°C	
Rated Voltage Range	4~16V	
Capacitance Tolerance	±20% , 120Hz , 20°C	
Leakage Current(MAX)	I≤0.2CV or 280 uA (After 2 minutes)	
Dissipation Factor(tan δ)	0.1 MAX	
ESR	Not more than the values in Table 1	
Characteristics of temperature impedance ratio	-55°C (100KHz low temperature)	Z / Z20°C≤1.25
	105°C (100KHz high temperature)	Z / Z20°C≤1.25
Load Life	After life test at conditions stated in the table below 2000hrs 105°C, the capacitors shall meet the following requirement	
	Leskage Current	Not more than the specified value
	Capacitance Change	Within ±20% of initial value before test.
	Dissipation Factor	Not more than 150% of the specified value
	ESR	Not more than 150% of the specified value
Moisture resisnce (1000H, stored at 60°C, 90 to 95%R.H)	Leskage Current	Not more than the specified value
	Capacitance Change	Within ±20% of initial value before test.
	Dissipation Factor	Not more than 150% of the specified value
	ESR	Not more than 150% of the specified value
	Surge Voltage Test	At normal temperature, charge at surge voltage for 30sec. and discharge via a 1KΩ protective resistor for 330 sec. repeat for 1000 cycles
Leskage Current		Not more than the specified value
Capacitance Change		Within ±20% of initial value before test
Dissipation Factor		Not more than 150% of the specified value
ESR		Not more than 150% of the specified value
Others	JIS-C-5101-4	

■DIMENSIONS(mm)



D	5	6.3	8	10
d	0.5	0.5	0.5	0.6
F	2.0	2.5	3.5	5
a	L < 11, a=1.0; L ≥ 11, a=1.5			

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Frequency Coefficient for Ripple Current

Frequency	120Hz≤F < 1KHz	1KHZ≤F < 10KHZ	10KHz≤F < 100KHz	100KHz≤F < 500KHz
Coefficient	0.05	0.3	0.7	1

WV (v)	CAP (uF)	ΦD (mm)	L (mm)	ESR (mΩ) max at 20°C 100KHz	Ripple current (uA) max at 105°C 100KHz	Dissipation Factor at 20°C 120Hz	Leakage current (uA) max after 2 minutes
4	560	6.3	9	7	5100	10	448
	820	6.3	9	7	5100	10	656
	1200	6.3	9	7	5100	10	960
6.3	220	5	7	9	4000	10	280
	270	5	7	9	4000	10	340
	330	5	7	9	4000	10	415
		6.3	7	8	4700	10	415
	390	5	9	8	4500	10	491
	470	6.3	7	8	4700	10	592
	560	6.3	7	8	4700	10	705
		6.3	9	8	4700	10	705
	680	6.3	9	7	5900	10	856
	820	6.3	9	7	5900	10	1033
	1000	8	11	7	6680	10	1260
	1200	8	11	7	6680	10	1512
1500	8	11	9	6200	10	1890	
10	270	6.3	9	9	5010	10	540
	470	6.3	9	9	5010	10	940
		8	9	9	5350	10	940
	560	8	11	8	5810	10	1120
1000	8	11	8	5810	10	2000	
16	180	6.3	9	10	5100	10	576
	270	6.3	9	10	5100	10	864
	270	8	9	10	5200	10	864
	330	8	11	10	5900	10	1056
	470	8	11	10	5900	10	1505
	1000	10	12	12	6400	10	3200