

导电性高分子铝固态电解电容器

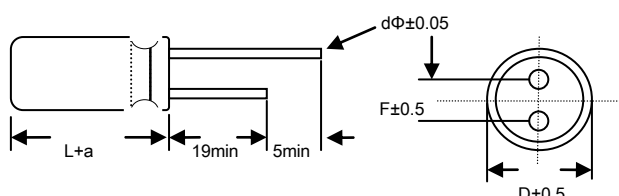
TD series

- 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
d	0.5	0.5	0.5
F	2.0	2.5	3.5
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	10	4550	10	448
	560	8	9	10	4850	10	448
6.3	470	6.3	9	10	4600	10	592
	470	8	9	8	4100	10	592
	560	6.3	9	8	4800	10	705
	560	8	9	8	4900	10	705
16	270	8	9	10	5100	10	864
	270	8	11	10	5100	10	864
	330	8	11	11	5100	10	1056
	470	8	11	11	5400	10	1504