

## 导电性高分子铝固态电解电容器

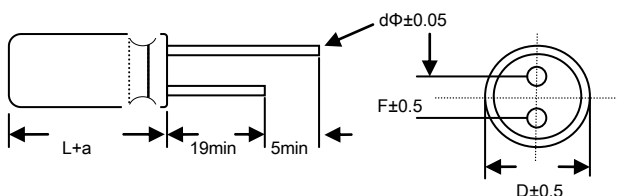
### TV series

- Suitable for DC-DC converters, voltage regulators, decoupling application for computer motherboards, etc.
- 105°C High voltage
- Low ESR
- Wide temperature range
- ROHS Compliance

### ■SPECIFICATIONS

Item	Performance Characteristics	
Operating	-55°C~+105°C	
Rated Voltage Range	20~200V	
Capacitance Tolerance	±20% , 120Hz , 20°C	
Leakage Current(MAX)	I≤0.2CV or 280 uA ( After 2 minutes )	
Dissipation Factor(tan δ)	0.12 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
50	22	8	9	44	1400	12	280
	33	8	9	44	1400	12	330
	47	8	11	41	1600	12	470
	56	10	12	39	2150	12	560
	68	10	12	35	2200	12	680
	100	10	12	35	2200	12	1000
	120	10	12	35	2200	12	1200
63	22	8	9	62	1350	12	280
	33	8	9	62	1350	12	415
	47	10	12	60	1400	12	592
	56	10	12	56	1500	12	705
100	6.8	8	11	44	1680	12	280
	10	8	11	40	1940	12	280
	18	10	12	35	2300	12	360
200	1	6.3	9	1500	180	12	280
	3.3	8	9	480	370	12	280
	4.7	8	11	350	420	12	280
	6.8	10	12	280	610	12	280
	8.2	10	12	280	680	12	328