

CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

FPC Series

- High reliability is realized by hybrid electrolyte
- High Ripple Current
- -55℃~+125℃
- Endurance 125℃, 4,000hrs
- AEC-Q200 compliant: Please contact us for more details, test data, information.



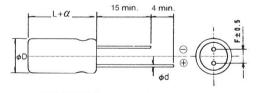


SPECIFICATIONS

Item	Characteristics						
Category temperature range	-55 to +125℃						
Rated voltage range	16 to 35Vdc						
Surge voltage		Rated Voltage(WV)	16	25	35		
Ourgo voltago		Surge Voltage(SV)	18,4	31,3	43,8		
Capacitance tolerance		±20% (M)				(at 20℃, 120Hz)	
Tangent of loss angle	Shal	Shall not exceed the value in Ratings of FPC series. (at 20°C, 120Hz					
Leakage Current * 1	Shall not exceed the value in Ratings of FPC series, (at					(at 20℃, 2minutes)	
ESR	Shall not exceed the value in Ratings of FPC series.						(at 20℃, 100kHz)
	[Impedance	Ratio				
Impedance Ratio (Characteristics at low temp.)		Z(-25°C) / Z(+20°C)	⟨ 1.5				
(onaractionade at low temp.)		Z(-55°C) / Z(+20°C)	⟨ 2,0				(at 100kHz)
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20° C after the rated voltage is applied for 4,000 hours at 125° C Capacitance change $\leq \pm 30\%$ of the initial value Tan $\delta \leq \pm 200\%$ of the initial specified value ESR $\leq \pm 200\%$ of the initial specified value Leakage current \leq The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20° c after exposing them for 1,000 hours at 125 $^\circ$ c without voltage applied. The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at lest 24hours and not more than 48 hours and not more than 48 hours before the measurements. Capacitance change $\leq \pm 30\%$ of the initial value						
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20° C after subjecting them to the DC rated voltage at 85° C, 85° RH for 2000hours Capacitance change $\leq \pm 30^{\circ}$ of the initial value Tan $\delta \leq \pm 200^{\circ}$ of the initial specified value SR $\leq \pm 200^{\circ}$ of the initial specified value						

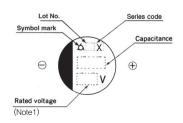
DIMENSIONS

Coating Case Type



		UN I T(mm)	
ФD(+0.5max.)	8	10	
L	10	10	
α	0.5		
Φd(±0 <u>.</u> 05)	0.6	0.6	
F(±0.5)	3.5	5	

MARKING



RATED RIPPLE CURRENT MULTIPLIES

Frequency(Hz) Capacitance(µF)	120	1K	5K	10K	20K	30K	100K ~500K
270 ~ 1000	0.15	0.50	0.70	0.75	0,85	0,85	1,00

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RATINGS OF FPC Series

Case Code	Rated Voltage (V)	Rated Capacitance(µF)	ESR(mΩ) (at 100kHz)	Rated Ripple Current (mArms/125℃,100㎏)	Tangent of loss angle	Leakage Current (µA)
	16	560	20	3,100	0.16	90
8X10	25	390	22	3,100	0.14	98
	35	270	22	3,100	0.12	95
	16	1000	18	3,500	0.16	160
10X10	25	680	20	3,500	0.14	170
	35	470	20	3,500	0.12	165