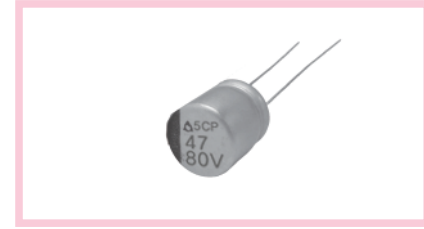




CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

FPA Series

- Hybrid electrolyte
- High Ripple Current
- -55°C~+125°C
- Endurance 125°C, 4,000hrs
- AEC-Q200 compliant : Please contact us for more details, test data, information.



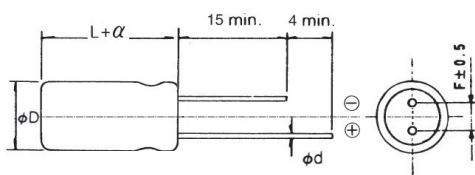
SPECIFICATIONS

Item	Characteristics						
Category temperature range	-55 to +125℃						
Rated voltage range	16 to 80Vdc						
Surge voltage	Rated Voltage(WV)	16	25	35	50	63	80
	Surge Voltage(SV)	18.4	29.0	40.0	57.5	72.5	92.0
Capacitance tolerance	±20% (M) (at 20℃, 120Hz)						
Tangent of loss angle	Shall not exceed the value in Ratings of FPA series, (at 20℃, 120Hz)						
Leakage Current ※ 1	Shall not exceed the value in Ratings of FPA series, (at 20℃, 2minutes)						
ESR	Shall not exceed the value in Ratings of FPA series, (at 20℃, 100kHz)						
Impedance Ratio (Characteristics at low temp.)	Impedance	Ratio					
	Z(-25℃) / Z(+20℃)	< 1.5					
	Z(-55℃) / Z(+20℃)	< 2.0 (at 100kHz)					
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage is applied for 4,000 hours at 125℃, Capacitance change ≤ ±30% of the initial value Tanδ ≤ ±200% of the initial specified value ESR ≤ ±200% of the initial specified value Leakage current ≤ The initial specified value						
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them for 1,000 hours at 125℃ without voltage applied, The rated voltage shall be applied to the capacitors for a minimum of 30 minutes, at least 24hours and not more than 48 hours and not more than 48 hours before the measurements, Capacitance change ≤ ±30% of the initial value Tanδ ≤ ±200% of the initial specified value ESR ≤ ±200% of the initial specified value Leakage current ≤ The initial specified value						
Bias Humidity	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjecting them to the DC rated voltage at 85℃, 85% RH for 2000hours Capacitance change ≤ ±30% of the initial value Tanδ ≤ ±200% of the initial specified value ESR ≤ ±200% of the initial specified value Leakage current ≤ The initial specified value						

※ 1, if any doubt arises, measure the leakage current after following voltage treatment.
(Voltage treatment : Applying rated voltage for 120minutes at 125°C)

DIMENSIONS

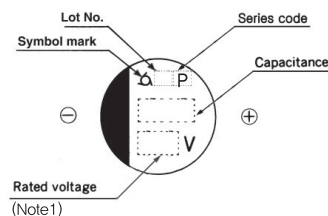
Coating Case Type



UNIT(mm)

φD(+0.5max.)	6.3	6.3	8	10
L	6	8	10	10
α	0.5			
φd(±0.05)	0.45	0.5	0.6	0.6
F(±0.5)	2.5	2.5	3.5	5

MARKING



RATED RIPPLE CURRENT MULTIPLIES

Frequency(Hz)	120	1K	5K	10K	20K	30K	100K ~500K
Capacitance(μF)							
~ 10	0.03	0.30	0.50	0.60	0.70	0.75	1.00
15 ~ 33	0.07	0.30	0.50	0.60	0.70	0.75	1.00
39 ~ 150	0.10	0.40	0.60	0.70	0.80	0.80	1.00
220 ~ 560	0.13	0.45	0.65	0.75	0.85	0.85	1.00

RATINGS OF FPA Series

Case Code	Rated Voltage (V)	Rated Capacitance(μF)	ESR(mΩ) (at 100kHz)	Rated Ripple Current (mArms/125℃,100KHz)	Tangent of loss angle	Leakage Current (μA)
6.3X6	16	82	45	950	0,16	13
	25	47	50	900	0,14	12
	25	56	50	900	0,14	14
	35	27	60	900	0,12	9
	35	47	60	900	0,12	16
	50	10	80	750	0,10	5
	50	22	80	750	0,10	11
	63	6,8	120	700	0,08	4
	63	10	120	700	0,08	6
6.3X8	16	150	27	1,450	0,16	24
	25	68	30	1,400	0,14	17
	25	100	30	1,400	0,14	25
	35	47	35	1,400	0,12	16
	35	68	35	1,400	0,12	24
	50	15	40	1,100	0,10	8
	50	33	40	1,100	0,10	17
	63	10	80	900	0,08	6
	63	22	80	900	0,08	14
8X10	16	270	22	1,700	0,16	43
	25	150	27	1,600	0,14	38
	25	220	27	1,600	0,14	55
	35	100	27	1,600	0,12	35
	35	150	27	1,600	0,12	53
	50	33	30	1,250	0,10	17
	50	47	30	1,250	0,10	24
	50	68	30	1,250	0,10	34
	63	22	40	1,100	0,08	14
	63	33	40	1,100	0,08	21
	63	47	40	1,100	0,08	30
	80	22	45	1,100	0,08	18
10X10	16	470	18	2,100	0,16	75
	25	270	20	2,000	0,14	68
	25	330	20	2,000	0,14	83
	35	150	20	2,000	0,12	53
	35	270	20	2,000	0,12	95
	50	56	25	1,600	0,10	28
	50	100	25	1,600	0,10	50
	50	120	25	1,600	0,10	60
	63	33	30	1,400	0,08	21
	63	56	30	1,400	0,08	35
	63	82	30	1,400	0,08	52
	80	39	33	1,400	0,08	31
	80	47	33	1,700	0,08	38