

Radial Polymer Aluminum Solid Electrolytic Capacitor – PSY

FEATURES

- Low ESR, high ripple current, high voltage, long life
- Endurance: 5000 hours at 105°C

SPECIFICATIONS

Category Temperature Range (°C) -55°C ~ +105°C
 Rated Voltage Range (V) 35V ~ 160V.DC
 Capacitance Tolerance (+20°C, 120Hz) ±20%

Leakage Current $I \leq 0.1CV$ or $299 \mu A$ whichever is greater
 Less than or equal to the specified value. After 2 minutes application of rated Voltage at 20°C

Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	35~100	
	tanδ (Max.)	0.12	
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)	≤1.25	(100KHz)
	Z(-55°C)/Z(+20°C)	≤1.25	

Endurance The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 5000 hours at 105°C.

Appearance	No significant damage
Capacitance change	≅ ±20% of the initial value
D.F.(tanδ)	≅ 150% of the specified value
ESR	≅ 150% of the specified value
Leakage current	≅ The specified value

Damp Heat (Steady State) The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 1000 hours at 60°C, 90% ~ 95% RH.

Appearance	No significant damage
Capacitance change	≅ ±20% of the initial value
D.F.(tanδ)	≅ 150% of the specified value
ESR	≅ 150% of the specified value
Leakage current	≅ The specified value

Surge Voltage Surge Voltage = Rated voltage × 1.15(V)

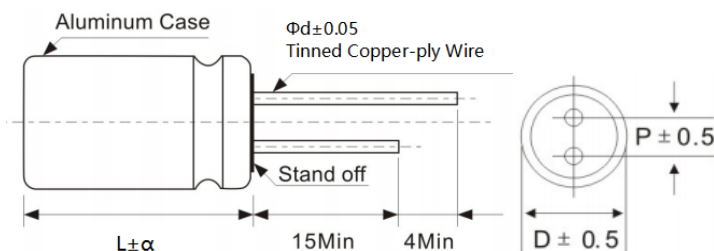
The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor ($R_c = 1k\Omega$) and discharge for 5 minutes 30 seconds.

Appearance	No significant damage
Capacitance change	≅ ±20% of the initial value
D.F.(tanδ)	≅ 150% of the specified value
ESR	≅ 150% of the specified value
Leakage current	≅ The specified value

Frequency Coefficient For Ripple Current

Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 500KHz
Coefficient	0.05	0.3	0.7	1

DIMENSIONS (mm)



ΦD	5	5.5	6.3	8	10
P	2.0	2.5	2.5	3.5	5.0
Φd	0.5	0.5	0.6	0.6	0.6

α	(L < 16)	1.0
	(16 ≤ L < 22)	1.5
	(L ≥ 22)	2.0

Please visit our website to get more update data, those data & specification are subject to change without notice.

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DIMENSIONS & CHARACTERISTICS

Rated Voltage	Rated Capacitance (μF)	Case Size ΦDxL (mm)	ESR (mΩ) at 20°C, 100 KHz	Leakage Current (μA)	Rated Ripple Current (mArms/105°C /100kHz)	
35	10	5x8	120	299	1100	
	22	5x8	120	299	1100	
	33	5x8	120	299	1100	
	47	5x8	5x8	120	299	1100
			6.3x8	80	299	1350
	68	5x8	5x8	120	299	1100
			6.3x8	70	299	1350
	100	5x11	5x11	120	350	1500
			6.3x7	80	350	1200
			6.3x8	50	350	1500
			8x9	40	350	1700
	150	8x9	8x9	40	525	1700
			6.3x12	40	770	1700
	220	8x9	8x9	40	770	1700
			8x12	35	770	2500
8x12			35	1155	2500	
330	10x12.5	10x12.5	30	1155	2900	
		10x12.5	30	1645	2900	
		10x12.5	30	1960	2900	
50	10	5x8	120	299	550	
	22	5x8	120	299	550	
		6.3x8	100	299	850	
	33	5x9	120	299	650	
		6.3x8	100	299	850	
	47	5x11	5x11	100	299	850
			6.3x8	80	299	900
			6.3x12	70	299	1150
			8x9	60	299	1150
	100	6.3x12	6.3x12	50	500	1150
			8x9	50	500	1150
			8x12	40	500	1380
150	8x12	40	750	1380		
220	10x12.5	35	1100	1650		
63	10	5x8	120	299	550	
	22	5x11	120	299	650	
		6.3x8	100	299	750	
	33	6.3x8	100	299	750	
		6.3x12	70	299	950	
	47	8x9	8x9	60	299	950
			8x12	45	517	1300
	82	10x12.5	10x12.5	38	517	1800
			8x12	45	630	1300
	100	10x12.5	10x12.5	38	630	1800
			10x12.5	35	1386	1800

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DIMENSIONS & CHARACTERISTICS

Rated Voltage	Rated Capacitance (μF)	Case Size ΦDxL (mm)	ESR (mΩ) at 20°C, 100 KHz	Leakage Current (μA)	Rated Ripple Current (mArms/105°C /100kHz)
80	10	6.3x8	120	299	550
	15	6.3x8	120	299	550
	22	8x9	80	299	1100
		8x12	60	299	1300
	33	10x12.5	45	299	1700
	39	10x12.5	45	312	1700
	47	8x12	60	376	1300
		10x12.5	45	376	1800
	56	10x12.5	45	448	1800
82	10x12.5	45	656	1800	
100	10x12.5	45	800	1800	
100	10	6.3x8	120	299	550
	22	6.3x12	90	299	820
		8x9	90	299	850
	33	8x12	70	330	1190
	47	10x12.5	60	470	1550
	100	10x15	50	1000	1790
160	4.7	8x9	350	299	550
	10	8x12	250	299	750
	15	8x12	250	299	750
		10x10	300	299	650
	18	10x12.5	200	299	950
	22	10x12.5	200	352	950

Note: Reflow soldering can only be used for SMD Conductive Polymer Aluminum Solid Electrolytic Capacitor.

Radial Conductive Polymer Aluminum Solid Electrolytic Capacitor are not suitable for reflow soldering, but only for wave soldering.

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