

# Radial Polymer Aluminum Solid Electrolytic Capacitor – PSR

## FEATURES

- Super Low ESR Series
- Load Life of 2000Hours, 105°C
- High Ripple Current

## SPECIFICATIONS



Category Temperature Range (°C) -55°C ~ +105°C  
 Rated Voltage Range (V) 2.5V ~ 25V.DC  
 Capacitance Tolerance (+20°C, 120Hz) ±20%

Leakage Current  $I \leq 0.2CV$  or  $500 \mu A$  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)	2.5	4	6.3	6.8	7.5	10	12	16	20	25
	tanδ (Max.)	0.08						0.12			
Low Temperature Characteristics (Max. Impedance Ratio)	Z(-25°C)/Z(+20°C)			$\leq 1.25$			(100KHz)				
	Z(-55°C)/Z(+20°C)			$\leq 1.25$							

Endurance The specifications listed below shall be satisfied when the capacitors are restored to 20°C after application of rated voltage for 2000 hours at 105°C.

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

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

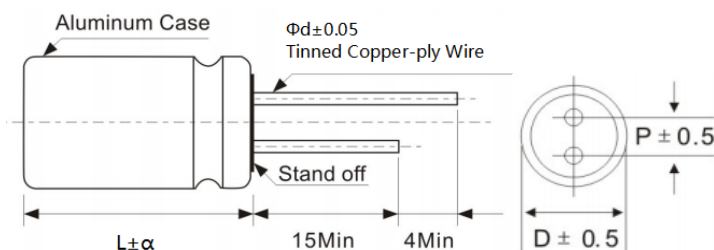
The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor ( $R_c=1k\Omega$ ) and discharge for 5 minutes 30 seconds.

Appearance	No significant damage
Capacitance change	$\cong \pm 20\%$ of the initial value
D.F.(tanδ)	$\cong 150\%$ of the specified value
ESR	$\cong 150\%$ of the specified value
Leakage current	$\cong$ 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	6.3	8	10
P	2.0	2.5	3.5	5.0
Φd	0.5	0.6	0.6	0.6

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

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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)
2.5	560	5x8	12	500	4100
		6.3x8	8	500	5100
	680	6.3x8	8	500	5100
		8x9	8	500	5900
	820	6.3x8	8	500	5200
		8x9	8	500	5900
	1000	8x9	8	500	5900
		8x12	8	500	6100
1200	8x9	8	600	5900	
	8x12	8	600	6100	
1500	8x12	8	750	6100	
	560	6.3x8	8	500	5100
680		8x9	8	500	5900
	820	6.3x8	8	544	5100
1000		8x9	8	544	5900
	1200	6.3x9	8	656	5200
1500		8x9	8	656	5900
	220	6.3x12	8	800	5500
270		8x9	8	800	5900
	330	6.3x12	8	960	5500
390		8x9	8	960	5900
	470	8x9	8	960	5900
560		5x8	12	500	3900
	680	5x8	12	500	3900
820		5x9.5	12	500	4100
	1000	6.3x8.5	10	500	4450
1200		5x9.5	12	500	4510
	1500	6.3x8	10	500	4800
2200		5x9.5	12	592	4510
	270	6.3x8.5	8	592	4900
330		6.3x8.5	8	706	5100
	390	8x9.5	8	706	5900
470		6.3x8.5	8	857	5100
	560	8x9	8	857	5900
680		6.3x9.5	8	1033	5200
	820	6.3x11.5	8	1033	5500
1000		8x9.5	8	1033	5900
	1200	6.3x11.5	8	1260	5500
1500		8x9.5	8	1260	5900
	2200	8x12	8	1260	6100
270		8x9	8	1512	5900
	330	8x12	8	1512	6100
390		8x12	8	1890	6100
	470	10x12.5	8	1890	6200
560		10x12.5	8	2772	6200
	680	5x8	12	500	3630
820		6.3x8	10	500	4100
	1000	6.3x8	10	585	4100
1200		6.3x8	10	705	4100
	1500	6.3x8	10	840	4500
2200		6.3x12	10	1020	4500
	270	8x9	8	1020	4800
330		6.3x12	10	1230	4500
	390	8x9	8	1230	4800
470		8x9	8	1500	4800
	560	8x12	8	1500	5100
680		8x12	8	1800	5100
	820	10x12.5	8	1800	5500
1000		10x12.5	8	2250	5500

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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)
10	220	5x8	15	500	3100
		6.3x8	12	500	3500
	270	6.3x8	12	540	3500
		6.3x8	12	660	3750
	330	8x9	10	660	3800
		6.3x8	12	780	3750
	390	6.3x12	12	780	3900
		6.3x8	12	940	3850
	470	8x9	10	940	3950
		6.3x12	12	1120	3900
	560	8x9	10	1120	3950
		6.3x12	12	1360	4100
	680	8x9	10	1360	4200
		8x9	10	1640	4200
820	8x12	8	1640	4500	
	8x12	8	2000	4500	
1000	10x12.5	8	2000	5200	
	10x12.5	8	2400	5200	
1200	10x12.5	8	2400	5200	
	10x12.5	8	3000	5200	
12	220	5x9	15	528	2690
		6.3x8	13	528	2900
	270	6.3x8	13	648	2900
		5x9.5	7	396	4800
	330	6.3x8	13	792	2900
		6.3x8	13	936	2900
	390	6.3x12	13	1128	3500
		8x9	12	1128	3800
	470	6.3x12	13	1344	3500
		8x9	12	1344	3800
	560	6.3x8.5	7	816	5100
		8x9	12	1632	3800
	680	8x12	11	1968	4100
		8x12	11	2400	4100
1000	10x12.5	10	2400	4800	
	10x12.5	10	2880	4800	
1200	10x12.5	10	2880	4800	
	10x12.5	10	3600	4800	
16	100	5x7.5	15	500	2100
		5x8	15	500	2100
	150	6.3x8	13	500	2900
		5x9	15	576	2690
	180	6.3x8	13	576	2900
		6.3x8.5	13	704	2900
	220	6.3x12	13	704	3500
		8x9	12	704	3500
	270	6.3x8.5	13	864	2900
		8x9	12	864	3500
	330	8x12	11	864	3790
		6.3x8.5	13	1056	2900
	390	6.3x11.5	13	1056	3500
		8x9	12	1056	3500
470	6.3x11.5	13	1504	3500	
	8x9.5	12	1504	3500	
560	8x12	7	752	5100	
	6.3x12	13	1792	3500	
680	8x12	12	1792	3500	
	8x12	11	2176	4800	
820	8x12	11	2624	4800	
	10x12	10	3200	5100	
25	68	6.3x8	25	500	2100
		8x9	20	500	2690
	82	6.3x8	25	500	2100
		8x9	20	500	2690
	100	6.3x8.5	25	500	2100
		8x9	18	500	2690
	150	8x12	18	500	2900
		8x9	18	750	2690
	180	8x12	18	750	2900
		8x12	18	900	2900
	220	8x12	18	1100	2900
		10x12.5	15	1350	3500
	270	10x12.5	15	1650	3500
		10x12	15	2350	3500
330	10x12	15	2350	3500	
	10x12	15	2350	3500	
35	100	6.3x8.5	15	350	2900
	470	10x12	10	1645	4900

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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