

PR series SMD type & Long Life to 5,000Hours

Features

- ◆ SMD type .
- ◆ Long Life to 5,000Hours.



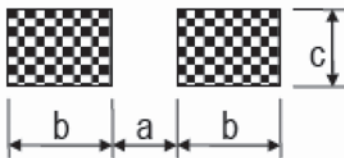
Specifications

Item	Performance Characteristics	
Operating Temperature Range	-55°C ~ +105°C	
Rated Voltage Range	6.3~25V DC	
Capacitance Range	47 to 1500 μF	
Capacitance Tolerance	±20% (120Hz , +20°C)	
Leakage Current (+20°C, max.)	Not to exceed the value specified (μA, after 2 minutes)	
Dissipation Factor (tan δ , at 20°C , 120Hz)	Not to exceed the value specified	
ESR (100K~300KHz)	Not to exceed the value specified	
Endurance 105°C , 5000h , at rated voltage	Capacitance Change	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified
Moisture Resistance Stored at 60°C , RH90~95% , 1000h	Capacitance Change	Within ±20% of the value before test
	Leakage current	Not to exceed the value specified
	ESR	Not to exceed 150% of the value specified
	Dissipation Factor	Not to exceed 150% of the value specified

Frequency Coefficient for Ripple Current

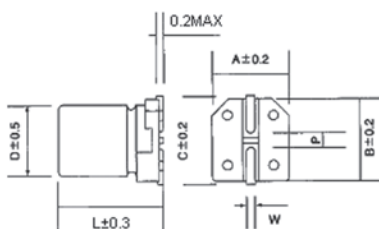
Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Recommended land pattern:(unit:mm)



φ DxL	a	b	c
6.3x7.7	2.1	3.5	1.6
8x7.7	2.8	4.2	1.9
8x11.7	2.8	4.2	1.9
10x10.5	4.3	4.4	1.9
10x12.4	4.3	4.4	1.9

Diagram of Dimensions:(unit:mm)



φ DxL	A	B	C	W	P
6.3x7.7	6.5	6.5	7.2	0.5 to 0.8	2.1
8x7.7	8.3	8.3	9.0	0.8 to 1.1	3.2
8x11.7	8.3	8.3	9.0	0.8 to 1.1	3.2
10x10.5	10.3	10.3	11.0	0.8 to 1.1	4.6
10x12.4	10.3	10.3	11.0	0.8 to 1.1	4.6

Dimensions & Characteristics

W.V. (V)	Capacitance (μ F)	L.C. (μ A,2min)	tg δ (120Hz,20°C)	ESR (m Ω ,100KHZ)	Maximum Permissible Ripple Current(mA,r.m.s)	ϕ DxL(mm)
						Size Φ DxL(mm)
6.3	270	340.2	0.08	22	2500	6.3x7.7
	470	592.2	0.08	22	3200	8x7.7
	820	1033.2	0.08	12	4500	8x11.7
	1000	1260	0.08	15	4200	10x10.5
	1500	1890	0.08	12	4800	10x12.4
10	180	360	0.08	22	2500	6.3x7.7
	270	540	0.08	22	3200	8x7.7
	470	940	0.08	12	4500	8x11.7
	560	1120	0.08	15	4200	10x10.5
	820	1640	0.08	12	4800	10x12.4
16	100	400	0.1	28	2350	6.3x7.7
	120	400	0.12	28	3000	8x7.7
	180	576	0.12	18	4200	8x11.7
	330	1056	0.12	23	3800	10x10.5
	560	1792	0.12	18	4500	10x12.4
20	68	600	0.1	33	2200	6.3x7.7
	120	600	0.12	33	2800	8x7.7
	180	720	0.12	23	4000	8x11.7
	220	880	0.12	25	3650	10x10.5
	330	1320	0.12	23	4200	10x12.4
25	47	600	0.1	33	2200	6.3x7.7
	68	600	0.12	33	2800	8x7.7
	100	600	0.12	23	4000	8x11.7
	120	600	0.12	25	3650	10x10.5
	180	900	0.12	23	4200	10x12.4

Ripple Current (mA, rms) at 105°C, 100KHz