

PG series SMD type & 125°C Guaranteed

Features

- ◆ SMD type .
- ◆ 125°C Guaranteed

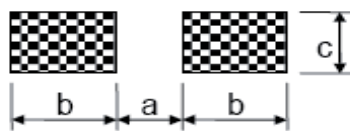
Specifications

Items	Performance Characteristics	
Operating Temperature Range	-55°C ~ +105°C	
Rated Voltage Range	6.3 ~ 50V DC	
Capacitance Range	10 to 1500µF	
Capacitance Tolerance	±20% (120Hz, +20°C)	
Leakage Current (+20°C, max)	Not to exceed the values shown in Standard Ratings (Rated voltage applied, after 2 minutes at 20°C)	
Dissipation Factor (tanδ, at 20°C, 120Hz)	Not to exceed the values shown in Standard Ratings	
ESR (at 100kHz, 20°C)	Not to exceed the values shown in Standard Ratings	
Endurance 125°C, 2000h, 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

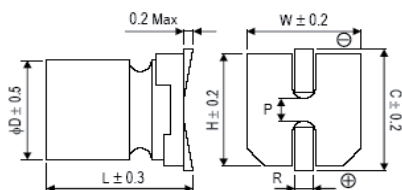
Frequency	120Hz ≤ freq. < 1KHz	1KHz ≤ freq. < 10KHz	10KHz ≤ freq. < 100KHz	100KHz ≤ freq. < 300KHz
Coefficient	0.05	0.3	0.7	1

Recommended land pattern:(unit:mm)



φD×L	a	b	c
6.3×5.8	2.1	3.5	1.6
6.3×7.7	2.1	3.5	1.6
8×7.7	2.8	4.2	1.9
8×8.7	2.8	4.2	1.9
8×11.7	2.8	4.2	1.9
10×8.7	4.3	4.4	1.9
10×10.5	4.3	4.4	1.9
10×12.4	4.3	4.4	1.9

Diagram of Dimensions:(unit:mm)



φD×L	W	H	C	R	P
6.3×5.8	6.5	6.5	7.2	0.5 to 0.8	2.2
6.3×7.7	6.5	6.5	7.2	0.5 to 0.8	2.2
8×7.7	8.3	8.3	9.0	0.7 to 1.1	3.1
8×8.7	8.3	8.3	9.0	0.7 to 1.1	3.1
8×11.7	8.3	8.3	9.0	0.7 to 1.1	3.1
10×8.7	10.3	10.3	11.0	0.7 to 1.1	4.5
10×10.5	10.3	10.3	11.0	0.7 to 1.1	4.5
10×12.4	10.3	10.3	11.0	0.7 to 1.1	4.5

Dimensions & Characteristics

φDxL(mm)

W.V. (V)	Capacitance (μF)	Size ΦDxL(mm)	L.C. (μA,2min)	tgδ (120Hz,20°C)	ESR (mΩ,100KHZ)	Rated Ripple Current		Allowable ripple current	
						100KHz (mA,r.m.s)			
						105°C < Tx ≤ 125°C	Tx ≤ 105°C		
6.3	100	6.3×5.8	300	0.08	35	695	2200		
	270	6.3×7.7	340.2	0.08	25	885	2800		
	470	8×7.7	592.2	0.08	25	1100	3500		
	820	8×11.7	1033.2	0.08	15	1490	4700		
	1000	10×10.5	1260	0.08	18	1390	4400		
	1500	10×12.4	1890	0.08	15	1610	5100		
10	56	6.3×5.8	300	0.08	35	695	2200		
	120	6.3×7.7	300	0.08	25	885	2800		
	150	6.3×7.7	300	0.08	25	885	2800		
	180	6.3×7.7	360	0.08	25	885	2800		
	270	8×7.7	540	0.08	25	950	3000		
	330	10×8.7	660	0.08	25	1100	3500		
	470	8×11.7	940	0.08	15	1330	4200		
	560	10×10.5	1120	0.08	18	1265	4000		
820	10×12.4	1640	0.08	15	1420	4500			
16	47	6.3×5.8	400	0.10	50	505	1600		
	82	6.3×7.7	400	0.10	30	695	2200		
	100	6.3×7.7	400	0.10	30	695	2200		
	120	8×7.7	400	0.12	30	885	2800		
	150	8×8.7	480	0.12	28	950	3000		
		10×8.7	480	0.12	35	930	3000		
	180	8×11.7	576	0.12	20	1200	3800		
		10×8.7	576	0.12	35	930	3000		
	220	8×11.7	704	0.12	20	1200	3800		
	270	10×10.5	864	0.12	25	1105	3500		
	330	10×10.5	1056	0.12	25	1105	3500		
	390	10×12.4	1248	0.12	20	1265	4000		
	560	10×12.4	1792	0.12	20	1265	4000		
	20	22	6.3×5.8	600	0.10	50	505	1600	
33		6.3×5.8	600	0.10	50	505	1600		
47		6.3×7.7	600	0.10	35	695	2200		
56		6.3×7.7	600	0.10	35	695	2200		
68		6.3×7.7	600	0.10	35	695	2200		
82		8×7.7	600	0.12	35	885	2800		
120		8×7.7	600	0.12	35	885	2800		
150		8×11.7	600	0.12	25	1200	3800		
180		8×11.7	720	0.12	25	1200	3800		
		10×10.5	720	0.12	27	1105	3500		
220		10×10.5	880	0.12	27	1105	3500		
330		10×12.4	1320	0.12	25	1265	4000		
25		10	6.3×5.8	600	0.10	60	474	1500	
		22	6.3×5.8	600	0.10	60	474	1500	
	39	6.3×7.7	600	0.10	35	695	2200		
	47	6.3×7.7	600	0.10	35	695	2200		
	47	8×11.7	600	0.12	25	1100	3500		
	56	8×7.7	600	0.12	35	885	2800		
	68	8×7.7	600	0.12	35	885	2800		
		8×11.7	600	0.12	25	1200	3800		
	82	8×8.7	600	0.12	30	950	3000		
		8×11.7	600	0.12	25	1200	3800		
		10×8.7	600	0.12	35	885	2800		
	100	8×11.7	600	0.12	25	1200	3800		
	120	8×11.7	600	0.12	25	1200	3800		
		10×10.5	600	0.12	27	1105	3500		
		150	10×12.4	750	0.12	25	1265	4000	
		180	10×12.4	900	0.12	25	1265	4000	

Dimensions & Characteristics

φDxL(mm)

W.V. (V)	Capacitance (μF)	Size φDxL(mm)	L.C. (μA,2min)	tgδ (120Hz,20°C)	ESR (mΩ,100KHZ)	Rated Ripple Current	Allowable ripple current
						100KHz (mA,r.m.s)	
						105°C < Tx ≤ 125°C	Tx ≤ 105°C
35	10	6.3×5.8	600	0.12	75	310	980
	18	6.3×7.7	600	0.12	60	450	1400
	22	8×11.7	600	0.12	35	730	2300
	27	6.3×7.7	600	0.12	60	450	1400
	33	8×11.7	600	0.12	35	730	2300
	39	8×8.7	600	0.12	40	570	1800
	56	8×11.7	600	0.12	35	730	2300
	68	10×10.5	600	0.12	32	800	2500
	100	10×10.5	700	0.12	32	800	2500
		10×12.4	700	0.12	30	980	3100
150	8×11.7	1050	0.12	25	1650	4800	
180	10×10.5	1260	0.12	30	1390	4400	
50	10	8×7.7	100	0.12	75	450	1400
	12	6.3×7.7	120	0.12	75	450	1400
	22	8×8.7	220	0.12	50	570	1800
		8×11.7	220	0.12	40	760	2400
		10×8.7	220	0.12	55	570	1800
	27	8×11.7	270	0.12	40	760	2400
	33	10×10.5	330	0.12	42	700	2200
		10×12.4	330	0.12	30	885	2800
	47	10×12.4	470	0.12	30	885	2800
	100	10×12.4	1000	0.12	30	885	2800
180	10×12.4	1800	0.12	24	950	3000	

Ripple Current(mA,rms)at 125°C,100KHz