

## Part Numbering System



① Category code

Type	Code
	1
Electrolytic Capacitor	E
Conductive Polymer	S

② Series code

Series name	Code	
	2	3
WH	W	H
CD11GE	G	E
CD11GES	G	X
CD11GAS	G	W
CD11GHS	G	S
NR	N	R
PZ	P	Z

③ Voltage code

WV (V <sub>dc</sub> )	Code	
	4	5
2.5	0	E
3	0	D
4	0	G
6.3	0	J
6.8	0	C
7	0	Q
7.5	0	A
10	1	A
12	1	T
16	1	C
25	1	E
35	1	V
40	1	G
50	1	H
63	1	J
80	1	B
100	1	K
120	2	B
160	2	C
180	2	L
200	2	D
220	2	N
250	2	E
315	2	F
350	2	V
380	2	P
400	2	G
420	2	T
450	2	W
500	2	H
550	2	J
600	2	K

④ Capacitance tolerance code

Tol. (%)	Code
	6
-10~+10	K
-20~+20	M
-10~+30	Q
-10~+20	V
0~+20	A
-5~+20	C
-10~-20	B
-5~+5	D
0~+10	E
-5~-20	F
-15~+5	N

⑤ Capacitance code

Cap (μF)	Code		
	7	8	9
0.10	R	1	0
0.22	R	2	2
0.33	R	3	3
0.47	R	4	7
0.68	R	6	8
1	0	1	0
2.2	2	R	2
3.3	3	R	3
4.7	4	R	7
6.8	6	R	8
10	1	0	0
22	2	2	0
33	3	3	0
47	4	7	0
68	6	8	0
100	1	0	1
220	2	2	1
330	3	3	1
470	4	7	1
680	6	8	1
1000	1	0	2
2200	2	2	2
3300	3	3	2
4700	4	7	2
6800	6	8	2
10000	1	0	3
22000	2	2	3
33000	3	3	3
68000	6	8	3

⑥ Size code

ΦD (mm)	Code
10	
4	C
5	D
6.3	E
8	F
10	G
11	H
12	J
12.5	W
13	K
14	X
16	L
18	M
19	Z
20	N
22	O
25	P
30	Q
35	R
40	Y
51.6	S
64.3	T
76.9	U
91	V
100	A

L (mm)	Code	
	11	12
5	0	5
7	0	7
11	1	1
12	1	2
16	1	6
20	2	0
25	2	5
30	3	0
35	3	5
40	4	0
46	4	6
50	5	0
60	6	0
80	8	0
100	A	0
115	B	5
120	C	0
130	D	0
140	E	0
160	G	0
200	K	0
220	M	0
236	N	6
250	P	0

⑦ Terminal code

Specification	Code	Size	
	13	14	15
Bulk packing	O	-	-
Taping (SMD Type)	D	0	0
Φ4~8 Taping F=5.0mm	P	5	0
Φ10~12.5 Taping F=5.0mm	B	5	0
Lead Cut L=3.5mm	C	3	5
Lead Cut L=11.0mm	C	B	0
Lead Forming & Cut L=4.5mm	F	-	-
Kink & Cut L=4.5mm	J	-	-
Snap-in type Terminal 4.0mm in length	K	-	-
Three Terminals	T	-	-
Ring clip mounting standard design	A	0	0
Ring clip mounting special design	S	-	-

⑧ Sleeve/Marking code

Sleeve/Marking	Code
	16
PVC	C
PET	T
Dark blue	B
Bright red	R
Sky-blue	S
Light blue	T
Pink	Z
Black	H
Purple-blue	V
Red	O

Lead Forming  
Taping Specifications

Fig.1 code: X



Fig.2 code: B



Fig.3 code: B



Fig.4 code: P



## Lead Forming

Specification Fig.1 &amp; Fig.2 &amp; Fig.3

Items	Symbol	Case size										Tolerance		
		4*5 4*7		5*5 5*7		5*11		6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5 8*12		8*16 8*20	10*9/12 10*12.5 10*13/16 10*20/25
Pin Code		X	B	X	B	X	B	B	B	B	B	B	B	
Lead wire diameter	Φd	0.45		0.45		0.5		0.45	0.5	0.5	0.45/0.5	0.6	0.6	±0.05
Pitch of body	P	12.7		12.7		12.7		12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7		12.7		12.7		12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	5.1	5.6	5.1	5.35	5.1	5.35	5.1	5.1	5.1	4.6	4.6	3.85	±0.7
Distance from feed hole center to body center	P2	6.35		6.35		6.35		6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	2.5	1.5	2.5	2.0	2.5	2.0	2.5	2.5	2.5	3.5	3.5	5.0	±0.5
Height of body from tape center	H	18.5		18.5		18.5		18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Base tape width	W	18.0		18.0		18.0		18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0		6.0		6.0		6.0	6.0	8.0	8.0	8.0	11.0	min
Hole position	W1	9.0		9.0		9.0		9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0		3.0		3.0		3.0	3.0	3.0	3.0	3.0	3.0	max

Specification Fig.4

Items	Symbol	Case size									Tolerance
		4*5 4*7	5*5	5*7	5*11	6.3*5	6.3*7 6.3*9	6.3*11 6.3*12	8*5/7 8*9/11 8*11.5/12	8*16 8*20	
Pin Code		P	P	P	P	P	P	P	P	P	
Lead wire diameter	Φd	0.45	0.45	0.45	0.5	0.45	0.5	0.5	0.45/0.5	0.6	±0.05
Pitch of body	P	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±1.0
Feed hole pitch	P0	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	±0.2
Distance from hole center to lead	P1	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	3.85	±0.7
Distance from feed hole center to body center	P2	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	±1.0
Lead-to-lead distance	F	1.5	2.0	2.0	2.0	2.5	2.5	2.5	3.5	3.5	±0.5
Lead to lead distance	F1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	+0.8 -0.2
Height of body from tape center	H	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	±0.75
Lead wire clinch height	H0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	±0.5
Base tape width	W	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	±0.5
Adhesive tape width	W0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0	min
Hole position	W1	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	+0.75 -0.5
Hole down tape position	W2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	max

**Lead Forming**

Lead Forming & Cut

Code:C  
RANGE:  $\Phi 4\sim\Phi 18$



Code:F  
RANGE:  $\Phi 4\sim\Phi 8$



$\Phi D$	F	L	$\Phi D$	F	L
4	1.5	3.0~12.0	4	5.0	3.5, 4.5, 5.0, 7.0
5	2.0	3.0~12.0	5	5.0	3.5, 4.5, 5.0, 7.0
6.3	2.5	3.0~12.0	6.3	5.0	3.5, 4.5, 5.0, 7.0
8	3.5	3.0~12.0	8	5.0	3.5, 4.5, 5.0, 7.0
10	5.0	3.0~12.0	-	-	-
12.5	5.0	3.0~12.0	-	-	-
16	7.5	3.0~12.0	-	-	-
18	7.5	3.0~12.0	-	-	-

Code:J  
RANGE:  $\Phi 10\sim\Phi 18$



$\Phi D$	F	L
10	5.0	4.0, 4.5, 5.0
12.5	5.0	4.0, 4.5, 5.0
16	7.5	4.0, 4.5, 5.0
18	7.5	4.0, 4.5, 5.0

### Solering Recommendation

■ Flow Soldering(Radial Lead Type)



■ Reflow Soldering

- (For Polymer SMD Type)

#### Recommended Reflow Profile



Item	Preheating	T1(°C)	T2(°C)	T3(°C)	t1(sec.)	t2(sec.)	t3(sec.)	Reflow cycle
Condition 1	150°C to 180°C Within 90sec.	≤260	230	200	≤10	≤40	≤60	1
Condition 2		≤250	230	200	≤10	≤40	≤60	2

● (For Liquid SMD Type)

Case size:  $\Phi 6.3$ – $\Phi 10$ mm:

- Temperature at surface of capacitor shall not exceed  $T^{\circ}\text{C}$ .
- The duration for over  $200^{\circ}\text{C}$  temperature and  $T_1^{\circ}\text{C}$  at surface of capacitor shall not exceed  $t$  and  $t_1$  seconds, respectively.
- Preheat shall be done at  $100^{\circ}\text{C}$  to  $200^{\circ}\text{C}$  and for Maximum 180 seconds.

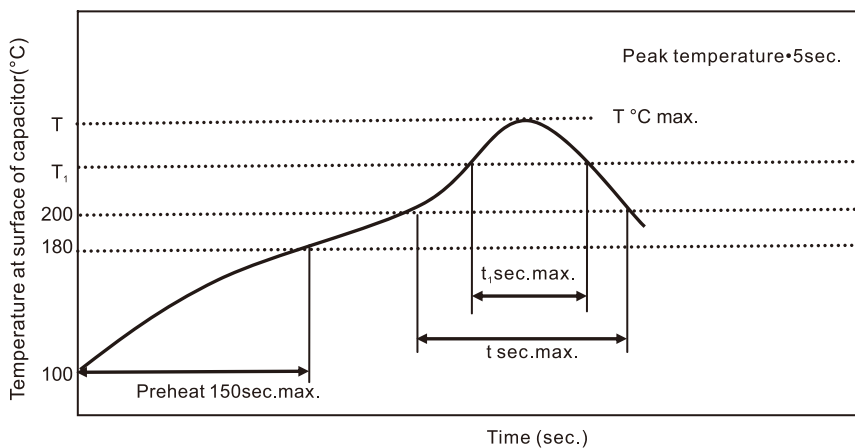


Case size (mm)	$T(^{\circ}\text{C})$ ①	$T_1(^{\circ}\text{C})$	$t(\text{sec.})$ ②	$t_1(\text{sec.})$ ③	Reflow cycle
$\Phi 6.3$	250	230	90	40	1
$\Phi 8$	240	230	90	30	1
$\Phi 10$	235	230	60	30	1

- ① Peak temperature
- ② The duration over  $200^{\circ}\text{C}$  (max.)
- ③ The duration over  $T_1^{\circ}\text{C}$
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

Case size:  $\Phi 12.5$ – $\Phi 18$ mm:

- Temperature at surface of capacitor shall not exceed  $T^{\circ}\text{C}$ .
- The duration for over  $200^{\circ}\text{C}$  temperature and  $T_1^{\circ}\text{C}$  at surface of capacitor shall not exceed  $t$  and  $t_1$  seconds, respectively.
- Preheat shall be done at  $100^{\circ}\text{C}$  to  $180^{\circ}\text{C}$  and for Maximum 150 seconds.

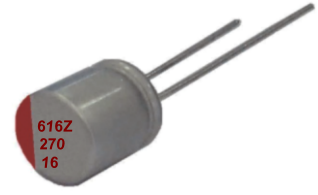


Case size (mm)	$T(^{\circ}\text{C})$ ①	$T_1(^{\circ}\text{C})$	$t(\text{sec.})$ ②	$t_1(\text{sec.})$ ③	Reflow cycle
$\Phi 12.5$ – $\Phi 18$	240	230	60	30	1

- ① Peak temperature
- ② The duration over  $200^{\circ}\text{C}$  (max.)
- ③ The duration over  $T_1^{\circ}\text{C}$
- Please contact us if capacitors are subject to the conditions other than the allowable range of reflow.

# PZ series

- Endurance: +105°C 2,000 hours
- Low ESR
- Recommended Applications: System Board, Display Card, Small Charger and intelligent TV
- RoHS Compliant and lead-free

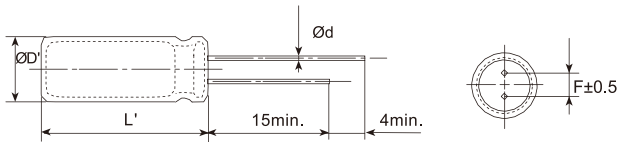


## SPECIFICATIONS

Items	Characteristics	
Category Temperature Range	-55~+105°C	
Rated Working Voltage Range	6.3~100 V <sub>dc</sub>	
Nominal Capacitance Range	4.7~5600μF	
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)	
DC Leakage Current	I ≤ 0.2CV or 500μA, whichever is greater. Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)	
Dissipation Factor (tanδ)	Rated Voltage(V <sub>dc</sub> )	6.3 6.8 7.5 10 16 25 35 50 63 100
	tanδ (max.)	0.08 0.12 0.15 (at 20°C, 120Hz)
ESR(100k~300kHz, 20°C)	Value in characteristics table	
Temperature Characteristic (Impedance Ratio at 100kHz)	Z(+105°C)/Z(+20°C) ≤ 1.25 Z(-55°C)/Z(+20°C) ≤ 1.25	
Endurance	After applying rated voltage for 2,000 hours at 105°C, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	≤ ±20% of the initial value
	D.F. (tanδ)	≤ 150% of the initial specified value
	ESR	≤ 150% of the initial specified value
Humidity Test	After subjecting to 90%~95% RH for 2,000 hours at 60°C without voltage applied, the capacitors shall meet the specified values for the Endurance characteristics listed above.	
	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.	
Surge Test	After subjecting to 1,000 cycles each consisting of charge with the surge voltage specified at normal temperature for 30 seconds through a protective resistor and discharge for 5 minutes 30 seconds, the capacitors shall meet the following requirements.	
	Appearance	No significant damage
	Capacitance Change	≤ ±20% of the initial value
	D.F. (tanδ)	≤ 150% of the initial specified value
	ESR	≤ 150% of the initial specified value
Leakage Current	≤ The initial specified value	

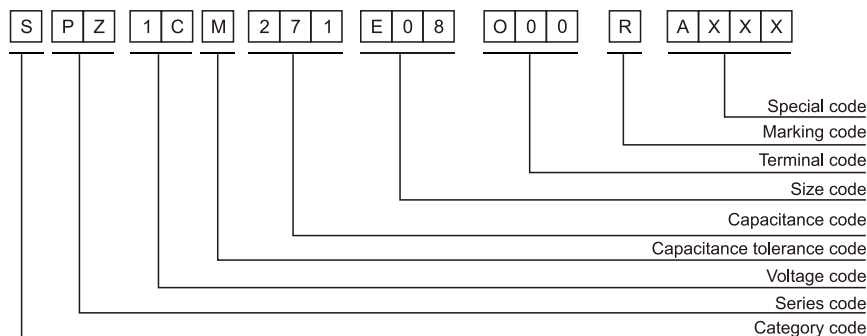
Conductive Polymer Radial Type

## DIMENSIONS [mm]



ØD	5	5.5	6.3	6.8	8	10	13
Ød	0.5	0.5	0.5	0.5	0.6	0.6	0.6
F	2.0	2.5	2.5	2.5	3.5	5.0	5.0
ØD'	ØD+0.5max.						
L'	L+1.0max.				L-0.5~+1		L-0.5~+2

## PART NUMBERING SYSTEM







# PZ series

■ STANDARD RATINGS

VDC (SV)	Cap (μF)	Size ΦDxL(mm)	ESR (mΩ,20°C,100kHz)(max.)	Rated ripple current (mArms/105°C,100kHz)	Leakage Current (μA)(max.)
7.5 (8.6)	1500	8*11	12	4900	2250
	1800	7*13	12	4800	2250
	2200	8*14	12	5100	2700
	2200	10*12	12	5700	3300
10 (11.5)	47	5*7	35	2200	500
	56	5*7	35	2250	500
	68	5*7	35	2300	500
	82	5*7	35	2350	500
		5*7	35	2400	500
	100	6.3*5	30	2300	500
		5*5	30	2000	500
	120	5*7	20	2450	500
	150	5*7	20	2500	500
	180	6.3*7	20	2800	500
		5*8	20	2700	500
		5*9	20	2820	500
	220	6.3*5	25	2800	500
		6.3*8	15	3160	500
	270	6.3*8	20	3100	540
		6.3*8	20	3300	660
	330	8*9	15	3400	660
		6.3*10	12	3500	660
	390	6.3*8	20	3400	780
		5.5*9	20	3400	940
	470	6.3*8	20	3500	940
		8*9	15	3550	940
		8*11	12	5650	940
	560	6.3*10	13	3600	1120
		8*9	15	3600	1120
	680	6.3*11	15	3800	1360
		8*11	12	3900	1360
	820	8*8	20	3300	1360
		8*11	12	4000	1640
	1000	8*11	12	4200	2000
		10*12	10	5300	2000
	1200	8*12	10	4500	2400
	10*12	10	5450	2400	
1500	10*12	10	5500	3000	
	8*14	10	4800	3000	
1800	10*13	10	5800	3600	
2200	10*15	10	6100	4400	
3300	10*18	10	6200	5000	
220	4*10	15	2100	528	
12 (13.8)	330	5.5*9	20	3100	792
		6.3*8	20	3100	792
	470	5*10	20	3100	792
		5.5*9	20	3200	1128
	560	6.3*9	20	3450	1128
		6.3*10	15	3400	1344
	680	6.3*11	15	3600	1632
		8*10	15	3700	1632
	820	8*11	12	3800	1968
		6.8*11	13	3200	1968
	1000	8*12	12	4000	2400
	1200	8*14	12	4400	2880
	1500	8*16	12	4800	3600
	16 (18.4)	22	5*9	80	1600
47		5*7	20	2050	500
56		5*7	20	2100	500
68		5*7	20	2150	500
82		5*8	20	2200	500
		5*7	20	2250	500
100		6.3*5	25	2100	500
		6.3*8	20	2800	500
120		5*8	20	2350	500
150		5*8	20	2400	500
180		5*8	20	2450	576
		6.3*7	16	2500	576
		5*10	20	2600	704
220		6.3*8	20	2700	704
		6.3*10	15	2900	704
		5.5*9	20	2750	864
270		6.3*8	20	2800	864
		8*9	20	2900	864
		5.5*9	20	2900	1056
330		6.3*9	20	2900	1056
		6.3*10	15	3100	1056
		5.5*10	20	3000	1504
470		6.3*11	15	3100	1504
		8*11	11	4600	1504
		8*9	13	4100	1504
		8*11	11	3200	1792
560		8*13	11	3300	1792
		10*12	11	3500	1792
		8*11	11	3400	2176
680		10*12	11	3600	2176
		6.8*11	11	3200	2176
		8*13	11	3500	2624
820		10*12	11	3800	2624
		10*12	11	4000	3200
1000		8*14	11	3600	3200

Conductive Polymer Radial Type

# PZ series

■ STANDARD RATINGS

VDC (SV)	Cap (μF)	Size ΦDxL (mm)	ESR (mΩ, 20°C, 100kHz)(max.)	Rated ripple current (mArms/105°C, 100kHz)	Leakage Current (μA)(max.)	
16 (18.4)	1200	10*15	11	4300	3840	
		10*12	11	4200	3840	
	1500	10*12	11	4800	4800	
		10*18	11	5500	4800	
	1800	10*14	11	5400	5000	
		10*17	11	5800	5000	
	2200	10*15	11	5500	5000	
	3300	13*18	11	6100	5000	
20 (23)	33	5*8	40	1900	500	
	39	5*8	40	1950	500	
	47	5*8	40	2200	500	
	56	5*9	40	2100	500	
	68	6.3*8	30	2100	500	
	82	6.3*8	30	2150	500	
	100	6.3*8	30	2200	500	
	120	6.3*8	30	2300	500	
	150	6.3*10	20	2350	600	
	180	8*9	30	2450	720	
	220	8*11	20	2550	880	
	270	8*11	20	2700	1080	
		330	8*11	20	2800	1320
			6.3*11	20	2100	1320
			10*12	20	2900	1880
	470		8*16	20	3000	1880
			8*11	20	2400	1880
			10*12	20	3100	2240
	560		8*16	20	3200	2240
			10*15	20	3300	2720
680		8*14	20	2700	2720	
820		10*18	20	3400	3280	
1000		10*18	20	3900	4000	
25 (29)	6.8	6.3*6	100	1100	500	
	10	5*8	70	1800	500	
	22	5*9	60	1810	500	
	33	5*9	50	1850	500	
	39	5*8	40	1900	500	
	47	5*9	40	1950	500	
	56	5*9	40	2050	500	
	68	6.3*7	30	2100	500	
	82	6.3*7	30	2150	500	
			6.3*8	30	2200	500
	100		6.3*10	20	2300	500
			8*11	20	2450	500
	120		6.3*8	30	2300	600
	150		6.3*10	20	2350	750
			6.3*10	20	2350	900
	180		8*9	30	2450	900
			8*11	20	2550	1100
	220		10*12	20	2900	1100
			5.5*10	20	1900	1100
	270		8*11	20	2700	1350
			8*11	20	2800	1650
	330		10*12	20	3100	1650
			10*10	25	2800	1650
			10*12	20	2800	2350
	470		8*16	20	2700	2350
			8*11	20	2300	2350
			10*10	25	2300	2350
560		10*12	20	3000	2800	
		8*11	20	2400	2800	
		10*15	20	3200	3400	
680		10*12	20	2800	3400	
		8*14	20	2500	3400	
		10*18	20	3300	4100	
820		10*12	20	2600	4100	
		8*16	20	2600	4100	
1000		10*18	20	3800	5000	
1500		13*16	20	4000	5000	
35 (41)	4.7	5*8	60	1700	500	
	10	5*8	60	1800	500	
	15	5*8	60	1850	500	
	22	5*9	100	1950	500	
	33	5*9	50	2000	500	
	39	5*9	50	2050	500	
	47	6.3*7	50	2100	500	
	56	6.3*7	50	2150	500	
	68	6.3*7	50	2200	500	
	82	6.3*7	50	2250	574	
			6.3*8	50	2350	700
	100		6.3*10	40	2400	700
			8*11	40	2600	700
	120		6.3*10	40	2500	840
	150		6.3*10	40	2550	1050
	180		6.3*11	40	2600	1260
			8*11	40	2800	1540
	220		10*12	30	2900	1540
			6.3*11	30	2700	1540
	270		10*12	30	3000	1890
	330		10*12	30	3100	2310
	470		10*13	20	3200	3290

# PZ series

■ STANDARD RATINGS

VDC (SV)	Cap (μF)	Size ΦDxL(mm)	ESR (mΩ,20°C,100kHz)(max.)	Rated ripple current (mArms/105°C,100kHz)	Leakage Current (μA)(max.)
35 (41)	560	10*14	20	3300	3920
	680	10*16	20	3400	4760
	820	10*18	20	3500	5000
	1000	10*18	20	3700	5000
50 (58)	4.7	5*8	60	1600	500
	10	6.3*7	35	1850	500
	15	5*8	70	1630	500
	22	5*8	70	1660	500
	33	6.3*7	40	1900	500
	47	6.3*7	40	2000	500
	56	6.3*8	35	2100	500
	68	6.3*8	35	2120	560
	100	6.3*10	30	2150	680
	120	8*11	30	2300	1000
	150	8*9	40	2100	1000
	180	8*11	30	2400	1200
	220	10*12	30	2500	1500
	270	10*12	30	2600	1800
	330	10*12	30	2700	2200
	440	10*13	20	2900	2700
470	10*15	20	3000	3300	
680	10*18	20	3100	4400	
1000	10*18	20	3150	4700	
1000	13*18	20	3300	5000	
63 (73)	4.7	6.3*8	60	1600	500
	6.8	6.3*8	60	1650	500
	10	6.3*5	60	1600	500
	33	6.3*8	30	1700	500
	39	6.3*8	30	1750	500
	47	6.3*8	30	1900	592
	56	6.3*9	30	1900	592
	68	8*9	30	1800	706
	82	8*11	30	2000	857
	100	8*11	30	2100	1033
	150	10*12	30	2200	1260
	180	10*12	30	2500	1890
	220	10*13	20	2600	2268
	270	10*15	20	2650	2772
	330	10*17	20	2850	3402
	470	10*18	20	2950	4158
1000	13*18	20	3100	5000	
1000	16*20	20	3500	5000	
1000	18*20	20	3700	5000	
80 (92)	4.7	6.3*8	60	1500	500
	6.8	6.3*8	60	1550	500
	22	6.3*10	60	1650	500
	33	8*11	35	1700	528
	47	10*12	35	1850	752
	68	10*12	35	1900	1088
	100	10*14	35	2100	1600
	220	13*18	35	2700	4400
100 (115)	4.7	6.3*8	60	1400	500
	6.8	6.3*8	60	1450	500
	10	6.3*10	50	1500	500
	15	8*11	50	1550	500
	22	8*11	50	1550	500
	33	10*12	35	1600	500
	47	10*14	35	1650	660
47	10*16	35	1800	940	

Conductive Polymer Radial Type

※ Specifications subject to change without notice.

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