

## 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		
	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 & Fig.2 & 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.

## RE series

- Low impedance and high frequency.
- Endurance: +105°C 2,000~4,000 hours
- Suitable for switching power, UPS, power sources, etc.
- RoHS Compliant

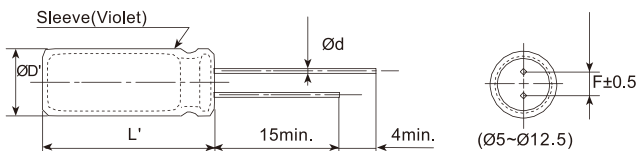
Upgrade



### SPECIFICATIONS

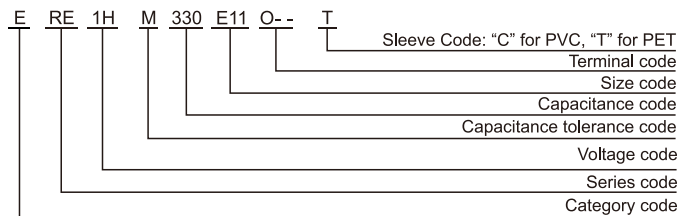
Items	Characteristics		
Category Temperature Range	-40~+105°C		
Rated Voltage Range	6.3~100 V <sub>dc</sub>		
Capacitance Tolerance	±20%(M) (at 20°C, 120Hz)		
Leakage Current	I ≤ 0.01CV or 3μA, whichever is greater. Where, I: Max. leakage current (μA), C: Nominal capacitance (μF), V: Rated voltage (V) (at 20°C after 2 minutes)		
Dissipation Factor (tanδ)	Rated Voltage (V <sub>dc</sub> )	6.3 10 16 25 35 50 63 100	
	tanδ (max.)	0.22 0.19 0.16 0.14 0.12 0.10 0.09 0.08	
	When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase. (at 20°C, 120Hz)		
Low Temperature Characteristics (Max. Impedance Ratio)	Rated Voltage (V <sub>dc</sub> )	6.3 10 16 25 35 50 63 100	
	Z(-25°C)/Z(+20°C)	4 3 2	
	Z(-40°C)/Z(+20°C)	8 6 4 3	
Endurance	The following specifications listed below shall be met when the capacitors are restored to 20°C after DC voltage plus rated ripple current is applied for a specified period of time at 105°C.		
	Capacitance Change	≤±25% of the initial value	Case Dia. Load life (hours)
	D.F. (tanδ)	≤200% of the initial specified value	ØD ≤ 6.3 2,000
	Leakage Current	≤The initial specified value	ØD = 8 & 10 3,000 ØD ≥ 12.5 4,000
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after leaving them under no load at 105°C for 1,000 hours.		
	Capacitance Change	≤±25% of the initial value	
	D.F. (tanδ)	≤200% of the initial specified value	
	Leakage Current	≤200% of the initial specified value	

### DIMENSIONS [mm]



ØD	5	6.3	8		10	12.5
Ød	0.5	0.5	0.5	0.6	0.6	0.6
F	2.0	2.5	3.5		5.0	5.0
ØD'	ØD + 0.5 max.					
L'	L + 2 max.					

### PART NUMBERING SYSTEM



### RATED RIPPLE CURRENT MULTIPLIERS

Frequency correction factor for ripple current

Freq. (Hz)	120	1k	10k	100k
Cap. < 220	0.40	0.75	0.90	1.00
220 ≤ Cap. < 680	0.50	0.85	0.94	1.00
680 ≤ Cap. < 2200	0.60	0.87	0.95	1.00
2200 ≤ Cap. < 4700	0.75	0.90	0.95	1.00
Cap. ≥ 4700	0.85	0.95	0.98	1.00

The endurance of capacitors is shortened with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.

RE series

■ STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω <sub>max</sub> /20°C, 100kHz)	Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)
6.3(0J)	180	6.3*11	0.22	0.25	340
		8*9	0.22	0.33	300
	220	6.3*11	0.22	0.25	340
		8*9	0.22	0.33	300
	270	6.3*11	0.22	0.25	340
		8*9	0.22	0.33	300
	330	8*11	0.22	0.13	650
		10*9	0.22	0.17	580
	470	8*11	0.22	0.13	650
		10*9	0.22	0.17	580
	560	8*11	0.22	0.13	650
		10*9	0.22	0.17	580
	680	8*11	0.22	0.13	650
		10*9	0.22	0.17	580
	820	10*12	0.22	0.08	870
		10*9	0.22	0.17	580
	1000	10*12	0.22	0.08	870
		10*12	0.22	0.08	870
	1500	8*20	0.22	0.068	1050
		10*16	0.22	0.060	1210
1800	10*20	0.22	0.045	1400	
	10*20	0.24	0.045	1400	
2200	10*20	0.24	0.045	1400	
	10*25	0.24	0.042	1650	
2700	12.5*20	0.24	0.035	1900	
	10*25	0.24	0.042	1650	
3300	12.5*20	0.26	0.035	1900	
	12.5*25	0.28	0.030	2130	
10(1A)	150	6.3*11	0.19	0.25	340
		8*9	0.19	0.33	300
	180	6.3*11	0.19	0.25	340
		8*9	0.19	0.33	300
	220	6.3*11	0.19	0.25	340
		8*9	0.19	0.33	300
	270	8*9	0.19	0.33	300
		10*9	0.19	0.17	580
	330	10*9	0.19	0.17	580
		10*9	0.19	0.17	580
	470	10*9	0.19	0.17	580
		10*9	0.19	0.17	580
	560	10*9	0.19	0.17	580
		10*9	0.19	0.17	580
	680	10*9	0.19	0.17	580
		10*12	0.19	0.08	870
	820	8*16	0.19	0.087	850
		10*16	0.19	0.060	1210
	1200	10*20	0.19	0.045	1400
		10*20	0.19	0.045	1400
1500	10*20	0.19	0.045	1400	
	10*20	0.19	0.045	1400	
1800	10*20	0.19	0.045	1400	
	10*20	0.21	0.045	1400	
2200	10*20	0.21	0.042	1650	
	10*25	0.21	0.035	1900	
2700	12.5*20	0.21	0.035	1900	
	12.5*25	0.23	0.030	2130	
16(1C)	100	8*9	0.16	0.33	300
		8*9	0.16	0.33	300
	120	8*9	0.16	0.33	300
		8*9	0.16	0.33	300
	150	10*9	0.16	0.33	580
		10*9	0.16	0.33	580
	180	8*9	0.16	0.33	300
		10*9	0.16	0.33	580
	220	8*9	0.16	0.33	300
		10*9	0.16	0.33	580
	270	10*9	0.16	0.17	580
		10*9	0.16	0.17	580
	330	10*9	0.16	0.17	580
		10*9	0.16	0.17	580
	470	10*9	0.16	0.17	580
		10*12	0.16	0.08	870
	560	10*12	0.16	0.08	870
		10*12	0.16	0.08	870
	680	8*16	0.16	0.087	850
		10*12	0.16	0.080	870
820	10*16	0.16	0.06	1210	
	10*16	0.16	0.06	1210	
1000	10*16	0.16	0.06	1210	
	10*20	0.16	0.045	1400	
1200	10*20	0.16	0.045	1400	
	10*20	0.16	0.045	1400	
1500	10*20	0.16	0.045	1400	
	10*20	0.16	0.042	1650	
1800	10*25	0.16	0.042	1650	
	12.5*20	0.16	0.035	1900	
2200	12.5*20	0.18	0.035	1900	
	12.5*20	0.18	0.030	2130	
25(1E)	82	6.3*11	0.14	0.25	340
		8*9	0.14	0.33	300
	100	6.3*11	0.14	0.25	340
		8*9	0.14	0.33	300

WV (V <sub>dc</sub> )	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω <sub>max</sub> /20°C, 100kHz)	Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)
25(1E)	120	8*11	0.14	0.13	650
		10*9	0.14	0.17	580
	150	8*11	0.14	0.13	650
		10*9	0.14	0.17	580
	180	8*11	0.14	0.13	650
		10*9	0.14	0.17	580
	220	8*11	0.14	0.13	650
		10*9	0.14	0.17	580
	270	10*9	0.14	0.17	580
		10*12	0.14	0.08	870
	330	10*9	0.14	0.17	580
		10*12	0.14	0.08	870
	470	8*16	0.14	0.087	840
		10*12	0.14	0.080	870
	560	10*16	0.14	0.060	1210
		10*16	0.14	0.060	1210
	680	10*16	0.14	0.060	1210
		10*20	0.14	0.045	1400
	820	10*20	0.14	0.045	1400
		10*20	0.14	0.045	1400
1000	10*20	0.14	0.045	1400	
	10*25	0.14	0.042	1650	
1500	10*25	0.14	0.042	1650	
	12.5*20	0.14	0.035	1900	
1800	12.5*25	0.14	0.030	2130	
	12.5*25	0.14	0.030	2130	
35(1V)	47	6.3*11	0.12	0.25	340
		8*9	0.12	0.33	300
	56	6.3*11	0.12	0.25	340
		8*9	0.12	0.33	300
	68	6.3*11	0.12	0.25	340
		8*9	0.12	0.33	300
	82	8*11	0.12	0.13	650
		10*9	0.12	0.17	580
	100	8*11	0.12	0.13	650
		10*9	0.12	0.17	580
	120	8*11	0.12	0.13	650
		10*9	0.12	0.17	580
	150	8*11	0.12	0.13	650
		10*9	0.12	0.17	580
	180	10*12	0.12	0.08	870
		8*11	0.12	0.13	650
	220	10*9	0.12	0.17	580
		8*16	0.12	0.087	840
	270	10*12	0.12	0.080	870
		10*16	0.12	0.060	1210
330	8*20	0.12	0.069	1050	
	10*12	0.12	0.080	870	
470	10*16	0.12	0.060	1210	
	10*16	0.12	0.060	1210	
560	10*20	0.12	0.045	1400	
	10*20	0.12	0.045	1400	
680	10*20	0.12	0.045	1400	
	10*25	0.12	0.042	1650	
820	12.5*20	0.12	0.035	1900	
	12.5*20	0.12	0.035	1900	
1000	12.5*25	0.12	0.030	2130	
	12.5*25	0.12	0.030	2130	
50(1H)	33	6.3*11	0.10	0.30	295
		8*9	0.10	0.40	260
	39	6.3*11	0.10	0.30	295
		8*9	0.10	0.40	260
	47	6.3*11	0.10	0.30	295
		8*9	0.10	0.40	260
	56	8*11	0.10	0.17	560
		10*9	0.10	0.23	500
	68	8*11	0.10	0.17	560
		10*9	0.10	0.23	500
	82	8*11	0.10	0.17	560
		10*9	0.10	0.23	500
	100	10*12	0.10	0.12	760
		8*16	0.10	0.12	730
	120	10*12	0.10	0.12	760
		10*16	0.10	0.084	1050
	150	10*16	0.10	0.084	1050
		8*20	0.10	0.090	1050
	180	10*16	0.10	0.084	1050
		10*16	0.10	0.084	1050
220	10*25	0.10	0.055	1440	
	12.5*20	0.10	0.045	1660	
270	12.5*25	0.10	0.034	1950	
	12.5*25	0.10	0.034	1950	



# RE series

■ STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω <sub>max</sub> /20°C, 100kHz)	Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)
63(1J)	22	6.3*11	0.09	0.95	120
		8*9	0.09	1.24	100
	27	6.3*11	0.09	0.95	120
		8*9	0.09	1.24	100
	33	6.3*11	0.09	0.95	120
		8*9	0.09	1.24	100
	39	8*11	0.09	0.51	235
		10*9	0.09	0.67	210
	47	8*11	0.09	0.51	235
		10*9	0.09	0.67	210
	56	8*11	0.09	0.51	235
		10*9	0.09	0.67	210
	68	8*11	0.09	0.51	235
		10*9	0.09	0.67	210
	82	10*12	0.09	0.34	315
	100	8*16	0.09	0.35	300
		10*12	0.09	0.34	315
	120	10*16	0.09	0.245	360
	150	8*20	0.09	0.265	360
	180	10*20	0.09	0.165	470
220	10*20	0.09	0.165	470	
270	12.5*20	0.09	0.125	700	
330	12.5*20	0.09	0.125	700	
390	12.5*25	0.09	0.095	930	

WV (V <sub>dc</sub> )	Cap (μF)	Size ΦDxL(mm)	tanδ	Impedance (Ω <sub>max</sub> /20°C, 100kHz)	Rated ripple current (mA <sub>rms</sub> /105°C, 100kHz)
100(1K)	15	6.3*11	0.08	0.95	120
		8*9	0.08	1.24	100
	27	8*11	0.08	0.51	235
		10*9	0.08	0.67	210
	39	8*16	0.08	0.36	300
	47	10*12	0.08	0.34	315
	56	8*20	0.08	0.265	360
	68	10*16	0.08	0.245	360
	82	10*20	0.08	0.165	470
	100	10*20	0.08	0.165	470
	120	12.5*20	0.08	0.125	700
	180	12.5*25	0.08	0.095	930
	220	12.5*25	0.08	0.095	930

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