

## 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
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 & 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.

## RF series

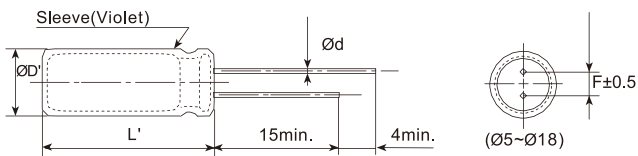
- Ultra-low impedance, high ripple current
- Endurance: +105°C 3,000~6,000 hours
- RoHS Compliant



### SPECIFICATIONS

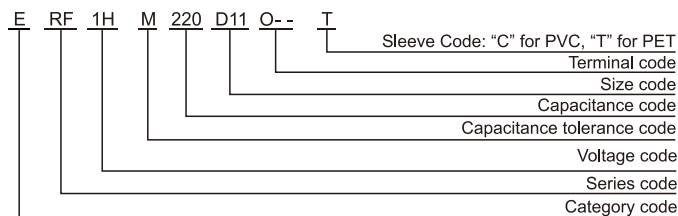
Items	Characteristics												
Category Temperature Range	-40~+105°C												
Rated Voltage Range	6.3~120 V <sub>dc</sub>												
Capacitance Tolerance	±20%(M) (at 20°C,120Hz)												
Leakage Current	I≤0.01CV or 3μA, whichever is greater. Where, I:Max.leakage current (μA),C:Nominal capacitance (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 80 100 120											
	tanδ (max.)	0.15 0.14 0.12 0.10 0.10 0.08 0.08 0.08 0.08 0.12											
	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 80 100 120											
	Z(-25°C)/Z(+20°C)	5 4 3 3 3 3 3 3 3 3 (at 120Hz)											
	Z(-40°C)/Z(+20°C)	10 8 5 4 4 4 4 4 4 4											
Endurance	The following specifications 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	<table border="1"> <tr><th>Dia.</th><th>Load life (hours)</th></tr> <tr><td>ØD≤6.3</td><td>3,000</td></tr> <tr><td>ØD=8</td><td>4,000</td></tr> <tr><td>ØD=10</td><td>5,000</td></tr> <tr><td>ØD≥12.5</td><td>6,000</td></tr> </table>	Dia.	Load life (hours)	ØD≤6.3	3,000	ØD=8	4,000	ØD=10	5,000	ØD≥12.5	6,000
	Dia.	Load life (hours)											
	ØD≤6.3	3,000											
ØD=8	4,000												
ØD=10	5,000												
ØD≥12.5	6,000												
D.F. (tanδ)	≤200% of the initial specified value												
Leakage Current	≤The initial specified value												
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	16	18
Ød	0.5	0.5	0.5	0.6	0.6	0.6	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ØD'	ØD+0.5max.						
L'	L+2max.						

### 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

# RF 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)	150	5*11	0.15	0.29	300
		6.3*9	0.15	0.37	270
	220	6.3*11	0.15	0.205	377
		8*9	0.15	0.26	337
	330	6.3*11	0.15	0.12	455
		8*9	0.15	0.15	408
	470	8*11	0.15	0.09	632
		10*9	0.15	0.12	565
	820	8*16	0.15	0.055	1045
	1000	8*16	0.15	0.052	1000
	1200	8*20	0.15	0.04	1300
		10*16	0.15	0.037	1480
	1500	10*20	0.15	0.022	1870
	2200	10*20	0.17	0.021	2200
	2700	10*25	0.17	0.02	2250
	3300	12.5*20	0.19	0.02	2410
3900	12.5*25	0.19	0.017	2820	
4700	12.5*30	0.21	0.015	3340	
5600	12.5*35	0.23	0.014	3400	
	16*20	0.23	0.017	3190	
6800	16*25	0.25	0.015	3510	
10(1A)	100	5*11	0.14	0.29	300
		6.3*9	0.14	0.37	270
	220	6.3*11	0.14	0.12	455
		8*9	0.14	0.15	408
	470	8*11	0.14	0.071	810
		10*9	0.14	0.092	720
	680	8*16	0.14	0.055	1046
		10*12.5	0.14	0.052	1080
	1000	8*20	0.14	0.04	1300
		10*16	0.14	0.037	1480
	1200	10*20	0.14	0.022	1870
	1500	10*20	0.14	0.021	2220
	2200	12.5*20	0.16	0.02	2410
	3300	12.5*25	0.18	0.017	2820
3900	12.5*30	0.18	0.015	3340	
4700	12.5*35	0.20	0.014	3450	
5600	16*25	0.22	0.015	3510	
16(1C)	56	5*11	0.12	0.29	300
		6.3*9	0.12	0.37	270
	120	6.3*11	0.12	0.12	455
		8*9	0.12	0.15	408
	150	6.3*11	0.12	0.096	632
		8*9	0.12	0.12	565
	220	6.3*12	0.12	0.084	721
		8*9	0.12	0.1	650
	330	8*11	0.12	0.071	810
		10*9	0.12	0.092	720
	470	8*16	0.12	0.055	1045
		10*12.5	0.12	0.052	1080
	680	8*20	0.12	0.04	1300
		10*16	0.12	0.04	1480
	1000	10*20	0.12	0.022	1870
	1200	10*25	0.12	0.021	2200
	1500	12.5*20	0.12	0.02	2410
	2200	12.5*25	0.14	0.017	2820
	2700	12.5*30	0.14	0.015	3340
		16*20	0.14	0.017	3190
3300	12.5*35	0.16	0.014	3450	
	16*25	0.16	0.016	3350	
3900	16*25	0.16	0.015	3510	

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)	47	5*11	0.10	0.29	300
		6.3*9	0.10	0.37	270
	100	6.3*11	0.10	0.12	455
		8*9	0.10	0.15	408
	220	8*11	0.10	0.071	810
		10*9	0.10	0.092	720
	330	8*16	0.10	0.055	1045
		10*12.5	0.10	0.052	1080
	390	8*20	0.10	0.044	1236
	470	10*16	0.10	0.037	1480
	560	10*16	0.10	0.03	1675
	680	10*20	0.10	0.022	1870
	820	10*25	0.10	0.021	2200
	1000	12.5*20	0.10	0.019	2550
	1500	12.5*25	0.10	0.017	2820
	1800	12.5*30	0.10	0.015	3340
16*20		0.10	0.017	3190	
2200	12.5*35	0.12	0.014	3450	
2700	16*25	0.12	0.015	3510	
35(1V)	33	5*11	0.10	0.29	300
		6.3*9	0.10	0.37	270
	56	6.3*11	0.10	0.12	455
		8*9	0.10	0.15	408
	100	8*11	0.10	0.095	632
		10*9	0.10	0.12	565
	150	8*11	0.10	0.071	810
		10*9	0.10	0.092	720
	220	8*16	0.10	0.055	1045
		10*12.5	0.10	0.052	1080
	270	8*20	0.10	0.04	1300
	330	10*16	0.10	0.037	1480
	470	10*20	0.10	0.022	1870
	560	10*25	0.10	0.021	2200
680	12.5*20	0.10	0.02	2410	
1000	12.5*25	0.10	0.017	2820	
1200	12.5*30	0.10	0.015	3340	
1500	16*20	0.10	0.017	3190	
	12.5*35	0.10	0.014	3450	
50(1H)	22	5*11	0.08	0.33	288
		6.3*9	0.08	0.43	260
	56	6.3*11	0.08	0.13	435
		8*9	0.08	0.17	390
	100	8*11	0.08	0.073	774
		10*9	0.08	0.095	695
	120	8*16	0.08	0.06	1000
	150	10*12.5	0.08	0.06	1029
	180	8*20	0.08	0.045	1240
	220	10*16	0.08	0.041	1420
	270	10*20	0.08	0.029	1630
	330	10*25	0.08	0.027	1920
	470	12.5*20	0.08	0.026	2100
	560	12.5*25	0.08	0.022	2460
	680	12.5*30	0.08	0.02	2910
	820	12.5*35	0.08	0.018	3010
16*20		0.08	0.022	2780	
1000	16*25	0.08	0.02	3060	

Radial Type



# RF 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)	15	5*11	0.08	0.88	165
		6.3*9	0.08	1.14	148
	33	6.3*11	0.08	0.35	265
		8*9	0.08	0.45	235
	56	8*11	0.08	0.22	500
		10*9	0.08	0.28	450
	82	8*16	0.08	0.16	665
		10*12.5	0.08	0.11	690
	120	8*20	0.08	0.12	820
		10*16	0.08	0.076	950
	180	10*20	0.08	0.056	1150
		12.5*16	0.08	0.072	1150
	220	10*25	0.08	0.046	1350
	270	12.5*20	0.08	0.041	1500
	390	12.5*25	0.08	0.031	1900
		12.5*30	0.08	0.028	2300
	470	16*20	0.08	0.032	2000
		12.5*35	0.08	0.024	2500
	680	12.5*40	0.08	0.021	2800
		16*25	0.08	0.025	2600
820	18*20	0.08	0.03	2500	
	16*30	0.08	0.021	2850	
1000	18*25	0.08	0.024	2800	
	16*35	0.08	0.019	2900	
1200	16*40	0.08	0.018	3400	
	18*30	0.08	0.02	3300	
1500	18*35	0.08	0.018	3400	
1800	18*40	0.08	0.017	3500	
80(1B)	68	10*12.5	0.08	0.17	480
	100	10*16	0.08	0.11	600
	120	10*20	0.08	0.084	800
	150	10*25	0.08	0.069	900
		12.5*16	0.08	0.11	750
	220	12.5*20	0.08	0.062	1100
		12.5*25	0.08	0.047	1250
	330	16*20	0.08	0.048	1350
		12.5*30	0.08	0.042	1500
	470	12.5*35	0.08	0.036	1650
		16*25	0.08	0.038	1700
	560	18*20	0.08	0.045	1500
		12.5*40	0.08	0.032	1800
	680	16*30	0.08	0.032	1850
		18*25	0.08	0.036	1750
	820	16*35	0.08	0.029	2000
		18*30	0.08	0.03	1900
	1000	16*40	0.08	0.027	2200
		18*35	0.08	0.027	2200
	1200	18*40	0.08	0.026	2700

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)	6.8	5*11	0.08	1.4	125
		6.3*9	0.08	1.8	110
	15	6.3*11	0.08	0.57	205
		8*9	0.08	0.74	180
	27	8*12	0.08	0.36	355
		10*9	0.08	0.47	320
	39	8*16	0.08	0.25	450
	47	10*12.5	0.08	0.17	480
	56	8*20	0.08	0.19	565
	68	10*16	0.08	0.11	600
	82	10*20	0.08	0.084	800
	100	12.5*16	0.08	0.11	750
	120	10*25	0.08	0.069	900
	150	12.5*20	0.08	0.062	1100
	220	12.5*25	0.08	0.047	1250
		16*20	0.08	0.048	1350
	270	12.5*30	0.08	0.042	1500
		12.5*35	0.08	0.036	1650
	330	16*25	0.08	0.038	1700
		18*20	0.08	0.045	1500
390	12.5*40	0.08	0.032	1800	
	16*30	0.08	0.032	1850	
470	18*25	0.08	0.036	1750	
	16*35	0.08	0.029	2000	
560	18*30	0.08	0.03	1900	
	16*40	0.08	0.027	2200	
680	18*35	0.08	0.027	2200	
	18*40	0.08	0.026	2700	
120(2B)	10	6.3*11	0.12	5.5	80
	15	6.3*12	0.12	4.5	100
	18	8*9	0.12	4.0	120
	22	8*12	0.12	3.5	130
	33	8*16	0.12	3.0	220
		10*12.5	0.12	3.0	220
	47	8*20	0.12	2.5	270
		10*16	0.12	2.5	270
	56	10*16	0.12	2.2	285
	68	10*16	0.12	2.0	285
	82	10*20	0.12	1.8	300
	100	10*25	0.12	1.5	380
	120	12.5*20	0.12	1.3	520
	150	12.5*25	0.12	1.0	570
	220	13*30	0.12	0.75	700
		16*20	0.12	0.75	700
	270	16*25	0.12	0.55	800
		18*20	0.12	0.55	800
	330	16*30	0.12	0.42	860
		18*25	0.12	0.42	860
470	16*40	0.12	0.30	960	
	18*30	0.12	0.30	960	

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