

RVW SERIES

105°C Long Life, Lead Free Reflow Soldering.

◆ FEATURES

- Load Life : 105°C 2000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.



◆ SPECIFICATIONS

Items	Characteristics																															
Category Temperature Range	-55~+105°C	-40~+105°C																														
Rated Voltage Range	6.3~50V.DC	63 , 100V.DC																														
Capacitance Tolerance	±20%(20°C, 120Hz)																															
Leakage Current(MAX)	I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)																															
Dissipation Factor(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>(20°C, 120Hz)</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>-</td> <td>-</td> <td></td> </tr> <tr> <td></td> <td>0.35</td> <td>0.26</td> <td>0.24</td> <td>0.18</td> <td>0.14</td> <td>0.12</td> <td>0.12</td> <td>0.10</td> <td></td> </tr> </tbody> </table> <p>When rated capacitance is over 1000μF, tanδ shall be added 0.02 to the listed value with increase of every 1000μF.</p>		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(20°C, 120Hz)	tanδ	0.30	0.24	0.20	0.16	0.14	0.12	-	-			0.35	0.26	0.24	0.18	0.14	0.12	0.12	0.10	
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Endurance	<p>After applying rated voltage with rated ripple current for 2000 hrs at 105°C, the capacitors shall meet the following requirements.</p> <table border="1"> <tbody> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </tbody> </table>		Capacitance Change	Within ±25% of the initial value.	Dissipation Factor	Not more than 200% of the specified value.	Leakage Current	Not more than the specified value.																								
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Low Temperature Stability Impedance Ratio(MAX)	<table border="1"> <thead> <tr> <th>Rated Voltage (V)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>100</th> <th>(120Hz)</th> </tr> </thead> <tbody> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>8</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>5</td> <td>5</td> <td></td> </tr> </tbody> </table>		Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(120Hz)	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2		Z(-40°C)/Z(20°C)	8	8	4	4	3	3	5	5	
Rated Voltage (V)	6.3	10	16	25	35	50	63	100	(120Hz)																							
Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2																								
Z(-40°C)/Z(20°C)	8	8	4	4	3	3	5	5																								

◆ MULTIPLIER FOR RIPPLE CURRENT

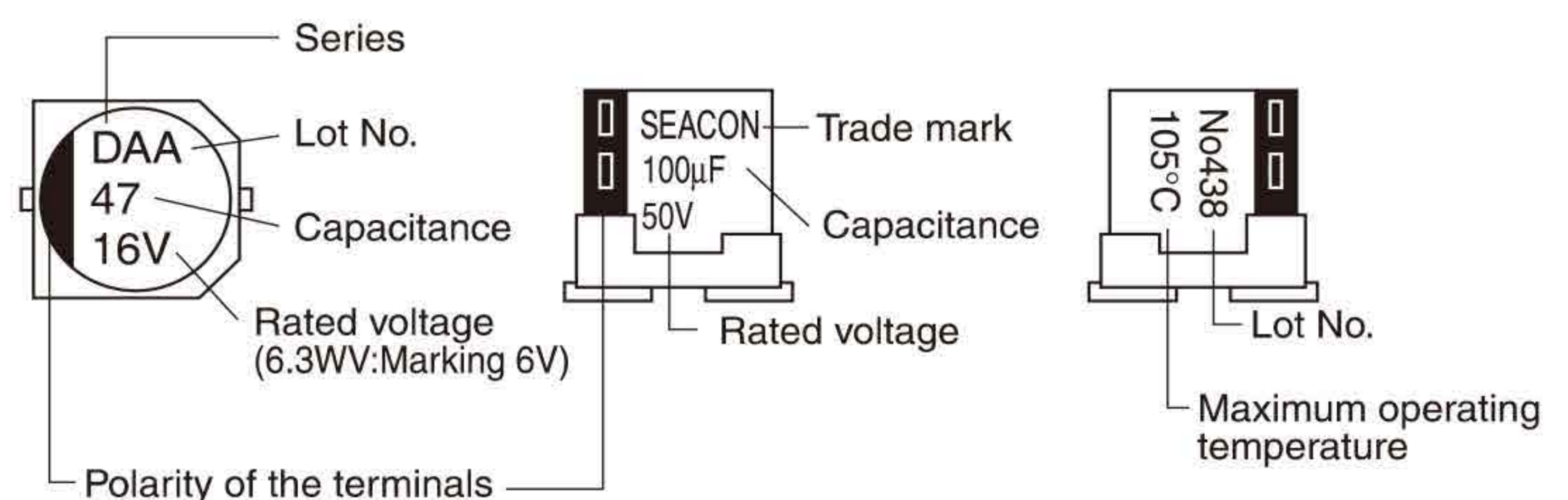
Frequency coefficient

Frequency (Hz)	60(50)	120	500	1k	10k≤
0.1~1μF	0.50	1.00	1.20	1.30	1.50
2.2~4.7μF	0.65	1.00	1.20	1.30	1.50
10~47μF	0.80	1.00	1.20	1.30	1.50
100~1000μF	0.80	1.00	1.10	1.15	1.20
2200~6800μF	0.80	1.00	1.05	1.10	1.15

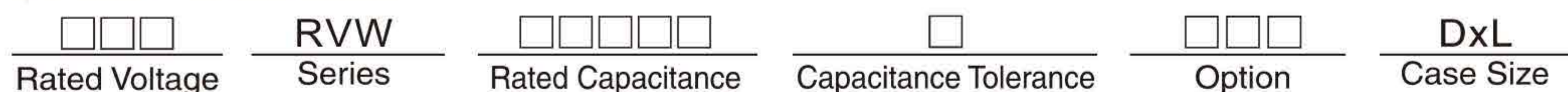
◆ MARKING

(φ4~φ6.3, φ8x6.5)

(φ8x10.5, φ10~φ18)

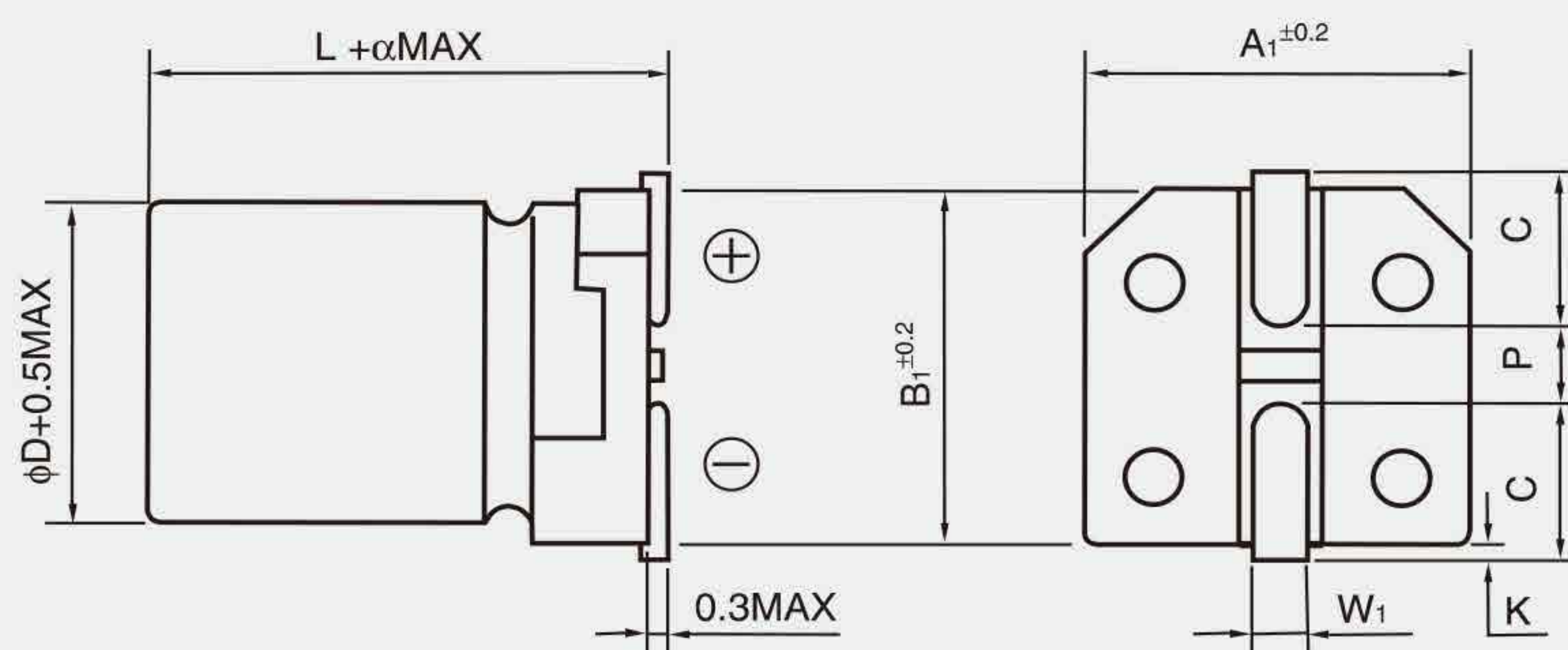


◆ PART NUMBER



◆ DIMENSIONS

(mm)



φ8x10.5~φ18 have sleeve.

φD	L	A ₁	B ₁	C	W ₁	P	K	α
4	6.1	4.3	4.3	1.8	0.5~0.8	1.0	0.5 MAX	0
5	6.1	5.3	5.3	2.2	0.5~0.8	1.3	0.5 MAX	0
6.3	6.1	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
6.3	8	6.6	6.6	2.7	0.5~0.8	1.8	0.5 MAX	0
8	6.5	8.3	8.3	3.4	0.5~0.8	2.2	0.5 MAX	0
8	10.5	8.3	8.3	2.9	0.8~1.1	3.1	0.5 MAX	0
10	10.5	10.3	10.3	3.2	0.8~1.1	4.5	0.5 MAX	0
12.5	13.5	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
12.5	16	13	13	4.9	0.8~1.1	4.5	0.7±0.4	0.5
16	16.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
16	21.5	17	17	6	1.0~1.6	6.8	0.7±0.4	0.5
18	16.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5
18	21.5	19	19	7	1.0~1.6	6.8	0.7±0.4	0.5

◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size φDxL(mm), Ripple Current (mA r.m.s./105°C, 120Hz)

WV(V.DC) Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)		63 (1J)		100 (2A)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
0.1											4X6.1	1.0				
0.22											4X6.1	2.6				
0.33											4X6.1	3.2				
0.47											4X6.1	4.0				
1											4X6.1	8.0				
2.2											4X6.1	11				
3.3											4X6.1	14				
4.7									4X6.1	15	5X6.1	19			8X10.5	55
10					4X6.1	28			5X6.1	28	6.3X6.1	35			8X10.5	65
22	4X6.1	26			5X6.1	39			6.3X6.1	55	6.3X8 8X6.5	67 70	8X10.5	55	10X10.5	90
33	4X6.1	29	5X6.1	43			6.3X6.1	65	6.3X8 8X6.5	76 84	8X10.5	140	8X10.5	115	10X10.5	135
47	5X6.1	46			6.3X6.1	70	6.3X8 8X6.5	79 91			8X10.5 10X10.5	167 180	8X10.5	120	12.5X13.5	160
100	6.3X6.1	71	6.3X6.1	71	6.3X8	111	8X10.5	180	8X10.5 10X10.5	180 305	8X10.5 10X10.5	230 315	12.5X16	225	16X16.5	285
220	6.3X8	121			8X10.5	185	8X10.5 10X10.5	320 355	10X10.5	450	12.5X16	380	16X16.5	385	16X21.5 18X16.5	440
330			8X10.5	195	8X10.5 10X10.5	290 440	10X10.5 12.5X13.5	450	12.5X16	460	16X16.5	470	16X21.5 18X16.5	490		
470	8X10.5	210	8X10.5 10X10.5	210 440	8X10.5 10X10.5	320 460	10X10.5	490	16X16.5	490	16X21.5 18X16.5	550	18X21.5	590		
1000	10X10.5 12.5X13.5	495	12.5X16	500	16X16.5	630	16X21.5 18X16.5	700	16X21.5 18X16.5	750	18X21.5	820				
2200	12.5X16	750	16X16.5	810	16X21.5 18X16.5	930	18X21.5	1050								
3300	16X21.5 18X16.5	930	16X21.5 18X16.5	1000	18X21.5	1150	18X21.5	1700								
4700	18X21.5	1200	18X21.5	1200												
6800	18X21.5	1350														