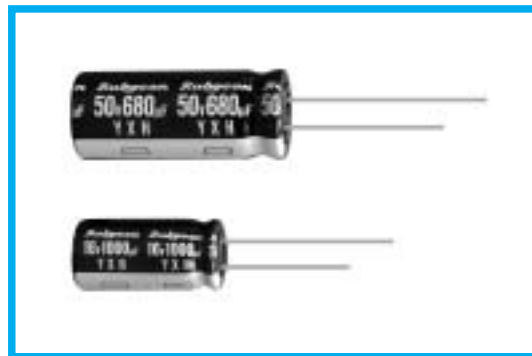


**YXH SERIES**
**105°C High ripple current. Long Life.**
**◆FEATURES**

- Low impedance at 100kHz with selected materials.
- Load Life : 105°C 4000~10000hours.
- RoHS compliance.


**◆SPECIFICATIONS**

Items	Characteristics																											
Category Temperature Range	-40~+105°C																											
Rated Voltage Range	6.3~100V.DC																											
Capacitance Tolerance	±20% (20°C, 120Hz)																											
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes) I=Leakage Current( μ A)      C=Rated Capacitance( μ F)      V=Rated Voltage(V)																											
Dissipation Factor(MAX) (tan δ)	<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> </tr> </thead> <tbody> <tr> <td>tan δ</td> <td>0.22</td> <td>0.19</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> <td>0.09</td> <td>0.08</td> </tr> </tbody> </table> <p>(20°C, 120Hz) When rated capacitance is over 1000 μF, tan δ shall be added 0.02 to the listed value with increase of every 1000 μF.</p>	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08									
Rated Voltage (V)	6.3	10	16	25	35	50	63	100																				
tan δ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
Endurance	<p>After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.</p> <table border="1"> <thead> <tr> <th rowspan="2">Capacitance Change</th> <th rowspan="2">Within ±25% of the initial value.</th> <th colspan="2">Life Time (hrs)</th> </tr> <tr> <th>6.3~10VV</th> <th>16~100VV</th> </tr> </thead> <tbody> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> <td>φ D ≤ 6.3</td> <td>4000    5000</td> </tr> <tr> <td rowspan="2">Leakage Current</td> <td rowspan="2">Not more than the specified value.</td> <td>φ D = 8,10</td> <td>6000    7000</td> </tr> <tr> <td>φ D ≥ 12.5</td> <td>8000    10000</td> </tr> </tbody> </table>	Capacitance Change	Within ±25% of the initial value.	Life Time (hrs)		6.3~10VV	16~100VV	Dissipation Factor	Not more than 200% of the specified value.	φ D ≤ 6.3	4000    5000	Leakage Current	Not more than the specified value.	φ D = 8,10	6000    7000	φ D ≥ 12.5	8000    10000											
Capacitance Change	Within ±25% of the initial value.			Life Time (hrs)																								
		6.3~10VV	16~100VV																									
Dissipation Factor	Not more than 200% of the specified value.	φ D ≤ 6.3	4000    5000																									
Leakage Current	Not more than the specified value.	φ D = 8,10	6000    7000																									
		φ D ≥ 12.5	8000    10000																									
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> </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> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> <p>(120Hz)</p>	Rated Voltage (V)	6.3	10	16	25	35	50	63	100	Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2	Z(-40°C)/Z(20°C)	8	6	4	3	3	3	3	3
Rated Voltage (V)	6.3	10	16	25	35	50	63	100																				
Z(-25°C)/Z(20°C)	4	3	2	2	2	2	2	2																				
Z(-40°C)/Z(20°C)	8	6	4	3	3	3	3	3																				

**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

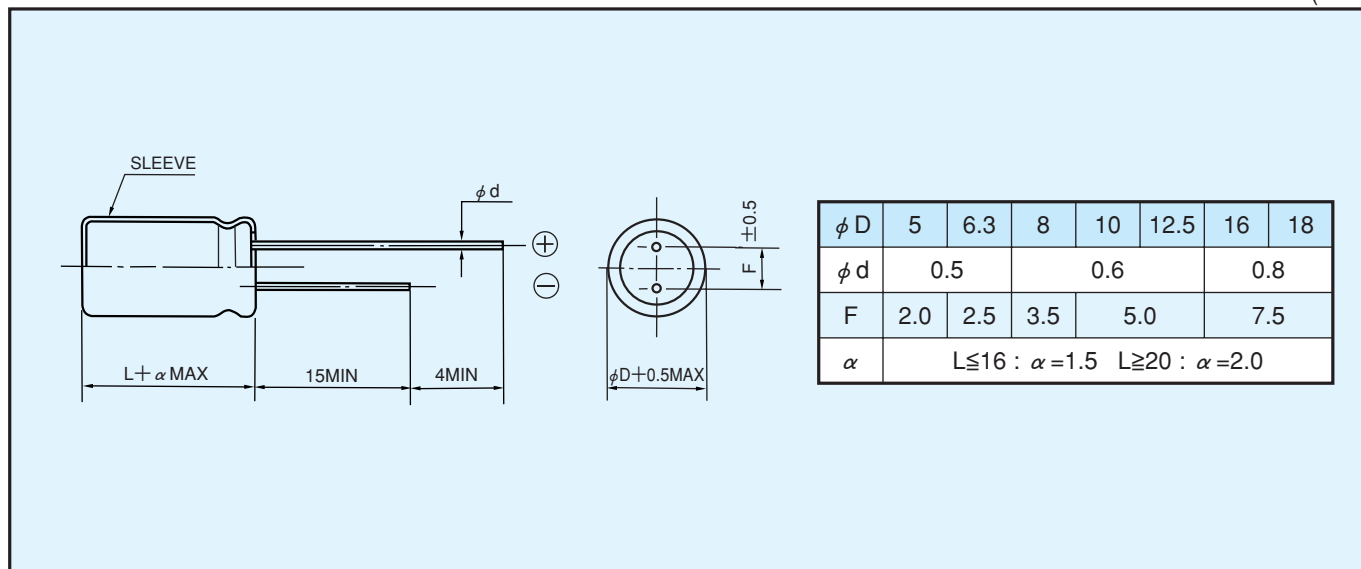
Frequency (Hz)	120	1k	10k	100k ≤
6.8~33 μF	0.42	0.70	0.90	1.00
39~270 μF	0.50	0.73	0.92	1.00
330~680 μF	0.55	0.77	0.94	1.00
820~1800 μF	0.60	0.80	0.96	1.00
2200~18000 μF	0.70	0.85	0.98	1.00

**◆呼称方法 PART NUMBER**

□□□	YXH	□□□□□	□	□□□	□□	DXL
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

◆ DIMENSIONS

(mm)



◆ STANDARD SIZE

Rated voltage 6.3V(0J)				
Rated capacitance ( $\mu F$ )	Size $\phi D \times L$ (mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
150	5×11	210	0.58	2.3
330	6.3×11	340	0.22	0.87
680	8×11.5	640	0.13	0.52
820	10×12.5	865	0.080	0.32
1000	8×16	840	0.087	0.35
1200	8×20	1050	0.069	0.27
1200	10×16	1210	0.060	0.24
1500	10×20	1400	0.046	0.18
1800	12.5×16	1450	0.049	0.16
2200	10×23	1650	0.042	0.17
2700	10×28	1910	0.031	0.12
2700	16×16	1940	0.042	0.12
3300	12.5×20	1900	0.035	0.12
3900	12.5×25	2230	0.027	0.089
3900	18×16	2210	0.043	0.11
4700	12.5×30	2650	0.024	0.078
5600	12.5×35	2880	0.020	0.065
5600	16×20	2530	0.027	0.078
6800	12.5×40	3350	0.017	0.056
6800	16×25	2930	0.021	0.060
6800	18×20	2860	0.026	0.067
8200	16×31.5	3450	0.017	0.050
10000	16×35.5	3610	0.015	0.044
10000	18×25	3140	0.019	0.049
12000	16×40	4080	0.013	0.038
12000	18×31.5	4170	0.015	0.040
15000	18×35.5	4220	0.014	0.038
18000	18×40	4280	0.012	0.032

Rated voltage 10V(1A)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
100	5×11	210	0.58	2.3
220	6.3×11	340	0.22	0.87
470	8×11.5	640	0.13	0.52
680	8×16	840	0.087	0.35
680	10×12.5	865	0.080	0.32
1000	8×20	1050	0.069	0.27
1000	10×16	1210	0.060	0.24
1200	10×20	1400	0.046	0.18
1500	10×23	1650	0.042	0.17
1500	12.5×16	1450	0.049	0.16
2200	10×28	1910	0.031	0.12
2200	12.5×20	1900	0.035	0.12
2200	16×16	1940	0.042	0.12
2700	18×16	2210	0.043	0.11
3300	12.5×25	2230	0.027	0.089
3900	12.5×30	2650	0.024	0.078
3900	16×20	2530	0.027	0.078
4700	12.5×35	2880	0.020	0.065
5600	12.5×40	3350	0.017	0.056
5600	16×25	2930	0.021	0.060
5600	18×20	2860	0.026	0.067
6800	16×31.5	3450	0.017	0.050
6800	18×25	3140	0.019	0.049
8200	16×35.5	3610	0.015	0.044
8200	18×31.5	4170	0.015	0.040
10000	16×40	4080	0.013	0.038
10000	18×35.5	4220	0.014	0.038
12000	18×40	4280	0.012	0.032

Rated voltage 16V(1C)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
56	5×11	210	0.58	2.3
120	6.3×11	340	0.22	0.87
330	8×11.5	640	0.13	0.52
470	8×16	840	0.087	0.35
470	10×12.5	865	0.080	0.32
680	8×20	1050	0.069	0.27
680	10×16	1210	0.060	0.24
1000	10×20	1400	0.046	0.18
1000	12.5×16	1450	0.049	0.16
1200	10×23	1650	0.042	0.17
1500	10×28	1910	0.031	0.12
1500	12.5×20	1900	0.035	0.12
1500	16×16	1940	0.042	0.12
2200	12.5×25	2230	0.027	0.089
2200	18×16	2210	0.043	0.11
2700	12.5×30	2650	0.024	0.078
2700	16×20	2530	0.027	0.078
3300	12.5×35	2880	0.020	0.065
3900	12.5×40	3350	0.017	0.056
3900	16×25	2930	0.021	0.060
3900	18×20	2860	0.026	0.067
4700	16×31.5	3450	0.017	0.050
4700	18×25	3140	0.019	0.049
5600	16×35.5	3610	0.015	0.044
5600	18×31.5	4170	0.015	0.040
6800	16×40	4080	0.013	0.038
8200	18×35.5	4220	0.014	0.038
10000	18×40	4280	0.012	0.032

Rated voltage 10V(1A)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D $\times$ L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
100	5 $\times$ 11	210	0.58	2.3
220	6.3 $\times$ 11	340	0.22	0.87
470	8 $\times$ 11.5	640	0.13	0.52
680	8 $\times$ 16	840	0.087	0.35
680	10 $\times$ 12.5	865	0.080	0.32
1000	8 $\times$ 20	1050	0.069	0.27
1000	10 $\times$ 16	1210	0.060	0.24
1200	10 $\times$ 20	1400	0.046	0.18
1500	10 $\times$ 23	1650	0.042	0.17
1500	12.5 $\times$ 16	1450	0.049	0.16
2200	10 $\times$ 28	1910	0.031	0.12
2200	12.5 $\times$ 20	1900	0.035	0.12
2200	16 $\times$ 16	1940	0.042	0.12
2700	18 $\times$ 16	2210	0.043	0.11
3300	12.5 $\times$ 25	2230	0.027	0.089
3900	12.5 $\times$ 30	2650	0.024	0.078
3900	16 $\times$ 20	2530	0.027	0.078
4700	12.5 $\times$ 35	2880	0.020	0.065
5600	12.5 $\times$ 40	3350	0.017	0.056
5600	16 $\times$ 25	2930	0.021	0.060
5600	18 $\times$ 20	2860	0.026	0.067
6800	16 $\times$ 31.5	3450	0.017	0.050
6800	18 $\times$ 25	3140	0.019	0.049
8200	16 $\times$ 35.5	3610	0.015	0.044
8200	18 $\times$ 31.5	4170	0.015	0.040
10000	16 $\times$ 40	4080	0.013	0.038
10000	18 $\times$ 35.5	4220	0.014	0.038
12000	18 $\times$ 40	4280	0.012	0.032

Rated voltage 16V(1C)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D $\times$ L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
56	5 $\times$ 11	210	0.58	2.3
120	6.3 $\times$ 11	340	0.22	0.87
330	8 $\times$ 11.5	640	0.13	0.52
470	8 $\times$ 16	840	0.087	0.35
470	10 $\times$ 12.5	865	0.080	0.32
680	8 $\times$ 20	1050	0.069	0.27
680	10 $\times$ 16	1210	0.060	0.24
1000	10 $\times$ 20	1400	0.046	0.18
1000	12.5 $\times$ 16	1450	0.049	0.16
1200	10 $\times$ 23	1650	0.042	0.17
1500	10 $\times$ 28	1910	0.031	0.12
1500	12.5 $\times$ 20	1900	0.035	0.12
1500	16 $\times$ 16	1940	0.042	0.12
2200	12.5 $\times$ 25	2230	0.027	0.089
2200	18 $\times$ 16	2210	0.043	0.11
2700	12.5 $\times$ 30	2650	0.024	0.078
2700	16 $\times$ 20	2530	0.027	0.078
3300	12.5 $\times$ 35	2880	0.020	0.065
3900	12.5 $\times$ 40	3350	0.017	0.056
3900	16 $\times$ 25	2930	0.021	0.060
3900	18 $\times$ 20	2860	0.026	0.067
4700	16 $\times$ 31.5	3450	0.017	0.050
4700	18 $\times$ 25	3140	0.019	0.049
5600	16 $\times$ 35.5	3610	0.015	0.044
5600	18 $\times$ 31.5	4170	0.015	0.040
6800	16 $\times$ 40	4080	0.013	0.038
8200	18 $\times$ 35.5	4220	0.014	0.038
10000	18 $\times$ 40	4280	0.012	0.032

Rated voltage 25V(1E)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
47	5×11	210	0.58	2.3
100	6.3×11	340	0.22	0.87
220	8×11.5	640	0.13	0.52
330	8×16	840	0.087	0.35
330	10×12.5	865	0.080	0.32
470	8×20	1050	0.069	0.27
470	10×16	1210	0.060	0.24
680	10×20	1400	0.046	0.18
680	12.5×16	1450	0.049	0.16
820	10×23	1650	0.042	0.17
1000	10×28	1910	0.031	0.12
1000	12.5×20	1900	0.035	0.12
1000	16×16	1940	0.042	0.12
1200	18×16	2210	0.043	0.11
1500	12.5×25	2230	0.027	0.089
1800	12.5×30	2650	0.024	0.078
1800	16×20	2530	0.027	0.078
2200	12.5×35	2880	0.020	0.065
2200	18×20	2860	0.026	0.067
2700	12.5×40	3350	0.017	0.056
2700	16×25	2930	0.021	0.060
3300	16×31.5	3450	0.017	0.050
3300	18×25	3140	0.019	0.049
3900	16×35.5	3610	0.015	0.044
3900	18×31.5	4170	0.015	0.040
4700	16×40	4080	0.013	0.038
4700	18×35.5	4220	0.014	0.038
5600	18×40	4280	0.012	0.032

Rated voltage 35V(1V)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
33	5×11	210	0.58	2.3
56	6.3×11	340	0.22	0.87
150	8×11.5	640	0.13	0.52
220	8×16	840	0.087	0.35
220	10×12.5	865	0.080	0.32
270	8×20	1050	0.069	0.27
330	10×16	1210	0.060	0.24
470	10×20	1400	0.046	0.18
470	12.5×16	1450	0.049	0.16
560	10×23	1650	0.042	0.17
680	10×28	1910	0.031	0.12
680	12.5×20	1900	0.035	0.12
680	16×16	1940	0.042	0.12
1000	12.5×25	2230	0.027	0.089
1000	18×16	2210	0.043	0.11
1200	12.5×30	2650	0.024	0.078
1200	16×20	2530	0.027	0.078
1500	12.5×35	2880	0.020	0.065
1800	12.5×40	3350	0.017	0.056
1800	16×25	2930	0.021	0.060
1800	18×20	2860	0.026	0.067
2200	16×31.5	3450	0.017	0.050
2200	18×25	3140	0.019	0.049
2700	16×35.5	3610	0.015	0.044
2700	18×31.5	4170	0.015	0.040
3300	16×40	4080	0.013	0.038
3300	18×35.5	4220	0.014	0.038
3900	18×40	4280	0.012	0.032

Rated voltage 50V(1H)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D $\times$ L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
22	5 $\times$ 11	180	0.70	2.8
56	6.3 $\times$ 11	295	0.30	1.2
100	8 $\times$ 11.5	555	0.17	0.68
120	8 $\times$ 16	730	0.12	0.48
150	10 $\times$ 12.5	760	0.12	0.48
180	8 $\times$ 20	910	0.091	0.36
220	10 $\times$ 16	1050	0.084	0.34
270	10 $\times$ 20	1220	0.060	0.24
270	12.5 $\times$ 16	1260	0.061	0.20
330	10 $\times$ 23	1440	0.055	0.22
470	10 $\times$ 28	1690	0.043	0.17
470	12.5 $\times$ 20	1660	0.045	0.15
470	16 $\times$ 16	1690	0.055	0.17
560	12.5 $\times$ 25	1950	0.034	0.11
560	18 $\times$ 16	1930	0.054	0.15
680	12.5 $\times$ 30	2310	0.030	0.10
820	12.5 $\times$ 35	2510	0.025	0.083
820	16 $\times$ 20	2210	0.034	0.10
1000	12.5 $\times$ 40	2920	0.021	0.069
1000	16 $\times$ 25	2555	0.025	0.075
1000	18 $\times$ 20	2490	0.036	0.097
1200	16 $\times$ 31.5	3010	0.022	0.066
1200	18 $\times$ 25	2740	0.026	0.070
1500	16 $\times$ 35.5	3150	0.019	0.057
1800	16 $\times$ 40	3710	0.016	0.048
1800	18 $\times$ 31.5	3635	0.021	0.057
2200	18 $\times$ 35.5	3680	0.017	0.046
2700	18 $\times$ 40	3800	0.014	0.038

Rated voltage 63V(1J)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D $\times$ L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
15	5 $\times$ 11	62	1.8	7.3
33	6.3 $\times$ 11	126	1.0	4.1
56	8 $\times$ 11.5	260	0.50	2.2
82	8 $\times$ 16	335	0.36	1.7
82	10 $\times$ 12.5	325	0.34	1.4
120	8 $\times$ 20	408	0.26	1.3
120	10 $\times$ 16	400	0.25	1.2
180	10 $\times$ 20	518	0.17	0.76
180	12.5 $\times$ 16	527	0.18	0.86
220	10 $\times$ 23	595	0.16	0.67
270	10 $\times$ 28	740	0.12	0.57
270	12.5 $\times$ 20	765	0.13	0.52
270	16 $\times$ 16	895	0.11	0.52
330	12.5 $\times$ 25	875	0.096	0.36
390	18 $\times$ 16	1030	0.096	0.40
470	12.5 $\times$ 30	1010	0.080	0.34
470	16 $\times$ 20	1130	0.077	0.32
560	12.5 $\times$ 35	1140	0.070	0.30
560	16 $\times$ 25	1350	0.062	0.23
680	12.5 $\times$ 40	1280	0.060	0.25
680	18 $\times$ 20	1300	0.072	0.27
820	16 $\times$ 31.5	1650	0.049	0.18
820	18 $\times$ 25	1560	0.052	0.19
1000	16 $\times$ 35.5	1900	0.040	0.15
1000	18 $\times$ 31.5	1720	0.042	0.15
1200	16 $\times$ 40	2130	0.036	0.13
1200	18 $\times$ 35.5	1890	0.036	0.13
1500	18 $\times$ 40	2470	0.032	0.12

Rated voltage 100V(2A)				
Rated capacitance ( $\mu$ F)	Size $\phi$ D $\times$ L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance ( $\Omega$ MAX)	
			20°C, 100kHz	-10°C, 100kHz
6.8	5 $\times$ 11	62	1.8	7.3
15	6.3 $\times$ 11	126	1.0	4.1
27	8 $\times$ 11.5	260	0.50	2.2
39	8 $\times$ 16	335	0.36	1.7
47	10 $\times$ 12.5	325	0.34	1.4
56	8 $\times$ 20	408	0.26	1.3
68	10 $\times$ 16	400	0.25	1.2
82	10 $\times$ 20	518	0.17	0.76
82	12.5 $\times$ 16	527	0.18	0.86
100	10 $\times$ 23	595	0.16	0.67
120	10 $\times$ 28	740	0.12	0.57
120	12.5 $\times$ 20	765	0.13	0.52
150	16 $\times$ 16	895	0.11	0.52
180	12.5 $\times$ 25	875	0.096	0.36
180	18 $\times$ 16	1030	0.096	0.40
220	12.5 $\times$ 30	1010	0.080	0.34
220	16 $\times$ 20	1130	0.077	0.32
270	12.5 $\times$ 35	1140	0.070	0.30
270	16 $\times$ 25	1350	0.062	0.23
330	12.5 $\times$ 40	1280	0.060	0.25
330	18 $\times$ 20	1300	0.072	0.27
390	16 $\times$ 31.5	1650	0.049	0.18
390	18 $\times$ 25	1560	0.052	0.19
470	16 $\times$ 35.5	1900	0.040	0.15
470	18 $\times$ 31.5	1720	0.042	0.15
560	16 $\times$ 40	2130	0.036	0.13
680	18 $\times$ 35.5	1890	0.036	0.13
820	18 $\times$ 40	2470	0.032	0.12