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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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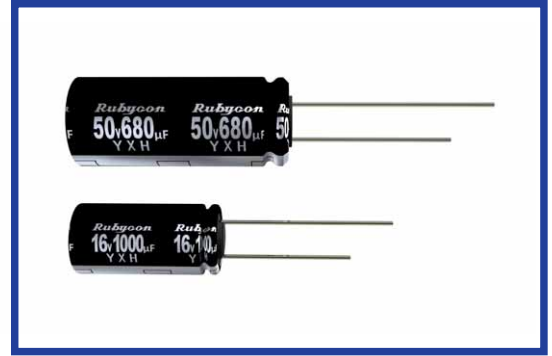
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**YXH SERIES**
**105°C Long Life, Low Impedance**

\*Load Life : 105°C 4000~10000 hours.

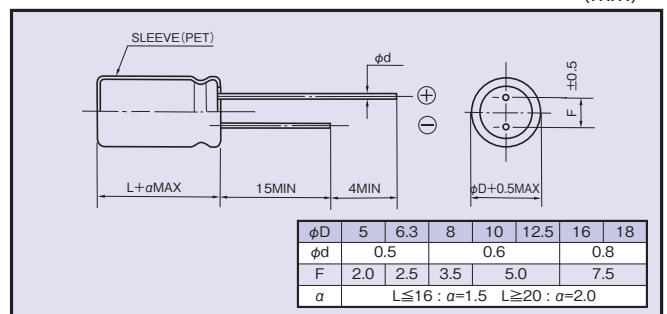
RoHS compliance


**SPECIFICATIONS**

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

**MULTIPLIER FOR RIPPLE CURRENT**

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

**DIMENSIONS**

**PART NUMBER**

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

**OPTION**

Code
PET Sleeve
EFC

**◆STANDARD SIZE**

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	-10°C, 100kHz
6.3	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	0.08	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	
10	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
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	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	
16	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
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	1500	12.5×20	1900	0.035	0.12
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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	
25	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	

**◆STANDARD SIZE**

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	-10°C, 100kHz
35	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	
50	22	5×11	180	0.70	2.8
	56	6.3×11	295	0.30	1.2
	100	8×11.5	555	0.17	0.68
	120	8×16	730	0.12	0.48
	150	10×12.5	760	0.12	0.48
	180	8×20	910	0.091	0.36
	220	10×16	1050	0.084	0.34
	270	10×20	1220	0.060	0.24
	270	12.5×16	1260	0.061	0.20
	330	10×23	1440	0.055	0.22
	470	10×28	1690	0.043	0.17
	470	12.5×20	1660	0.045	0.15
	470	16×16	1690	0.055	0.17
	560	12.5×25	1950	0.034	0.11
	560	18×16	1930	0.054	0.15
	680	12.5×30	2310	0.030	0.10
	820	12.5×35	2510	0.025	0.083
	820	16×20	2210	0.034	0.10
	1000	12.5×40	2920	0.021	0.069
	1000	16×25	2555	0.025	0.075
1000	18×20	2490	0.036	0.097	
1200	16×31.5	3010	0.022	0.066	
1200	18×25	2740	0.026	0.070	
1500	16×35.5	3150	0.019	0.057	
1800	16×40	3710	0.016	0.048	
1800	18×31.5	3635	0.021	0.057	
2200	18×35.5	3680	0.017	0.046	
2700	18×40	3800	0.014	0.038	
3300	18×40	3800	0.014	0.038	

Rated Voltage (Vdc)	Capacitance (μF)	Size φD×L(mm)	Rated ripple current (mA r.m.s./105°C, 100kHz)	Impedance (Ω MAX)	
				20°C, 100kHz	-10°C, 100kHz
63	15	5×11	62	1.8	7.3
	33	6.3×11	126	1.0	4.1
	56	8×11.5	260	0.50	2.2
	82	8×16	335	0.36	1.7
	82	10×12.5	325	0.34	1.4
	120	8×20	408	0.26	1.3
	120	10×16	400	0.25	1.2
	180	10×20	518	0.17	0.76
	180	12.5×16	527	0.18	0.86
	220	10×23	595	0.16	0.67
	270	10×28	740	0.12	0.57
	270	12.5×20	765	0.13	0.52
	270	16×16	895	0.11	0.52
	330	12.5×25	875	0.096	0.36
	390	18×16	1030	0.096	0.40
	470	12.5×30	1010	0.080	0.34
	470	16×20	1130	0.077	0.32
	560	12.5×35	1140	0.070	0.30
	560	16×25	1350	0.062	0.23
	680	12.5×40	1280	0.060	0.25
680	18×20	1300	0.072	0.27	
820	16×31.5	1650	0.049	0.18	
820	18×25	1560	0.052	0.19	
1000	16×35.5	1900	0.040	0.15	
1000	18×31.5	1720	0.042	0.15	
1200	16×40	2130	0.036	0.13	
1200	18×35.5	1890	0.036	0.13	
1500	18×40	2470	0.032	0.12	
100	6.8	5×11	62	1.8	7.3
	15	6.3×11	126	1.0	4.1
	27	8×11.5	260	0.50	2.2
	39	8×16	335	0.36	1.7
	47	10×12.5	325	0.34	1.4
	56	8×20	408	0.26	1.3
	68	10×16	400	0.25	1.2
	82	10×20	518	0.17	0.76
	82	12.5×16	527	0.18	0.86
	100	10×23	595	0.16	0.67
	120	10×28	740	0.12	0.57
	120	12.5×20	765	0.13	0.52
	150	16×16	895	0.11	0.52
	180	12.5×25	875	0.096	0.36
	180	18×16	1030	0.096	0.40
	220	12.5×30	1010	0.080	0.34
	220	16×20	1130	0.077	0.32
	270	12.5×35	1140	0.070	0.30
	270	16×25	1350	0.062	0.23
	330	12.5×40	1280	0.060	0.25
330	18×20	1300	0.072	0.27	
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