

TY series

+105°C, High Ripple Current(高纹波), Ultra Low Impedance(极低阻抗)

Special Long Life(超长寿命品)

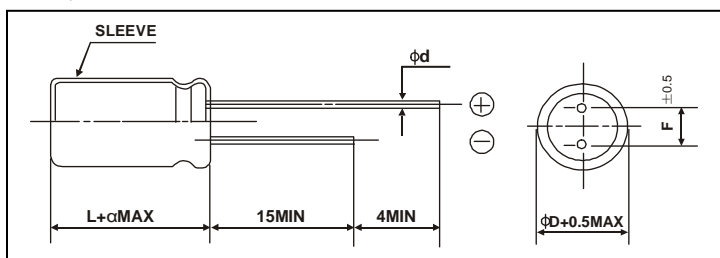
◆ FEATURES

- Low impedance for high frequency
- Long life: 6000~10000 hours at 105°C

◆ SPECIFICATIONS

Items	Characteristics																											
Category Temperature Range	-40°C~+105°C																											
Rated Voltage Range	6.3~100V.DC																											
Nominal Capacitance Range	6.8~6800μ F																											
Capacitance Tolerance	±20%(120Hz,+20°C)																											
Leakage Current(MAX, 20°C)	I=0.01CV or 3(μA) after 2 minutes with rated working voltage																											
Dissipation Factor(MAX) Tanδ (20°C,120Hz)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage(V)</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <th>Tanδ</th> <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> </table>	Rated Voltage(V)	6.3	10	16	25	35	50	63	100	Tanδ	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																			
Tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08																				
When nominal capacitance is over 1000μ F, tanδ shall be added 0.02 to the listed value with Increase of every 1000μ F																												
Load Life	After applying rated voltage with max ripple current for 4000~10000hrs at 105°C, the capacitors shall meet the following requirements																											
	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value</td> <td>ΦD</td> <td>Life time</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value</td> <td>Φ5~6.3</td> <td>6000H</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value</td> <td>Φ8</td> <td>8000H</td> </tr> <tr> <td></td> <td></td> <td>Φ10~</td> <td>10000H</td> </tr> </table>	Capacitance Change	Within ±25% of the initial value	ΦD	Life time	Dissipation Factor	Not more than 200% of the specified value	Φ5~6.3	6000H	Leakage Current	Not more than the specified value	Φ8	8000H			Φ10~	10000H											
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After Leaving capacitors under no load at 105°C for 1000hrs, they meet the characteristic requirements listed at right																												
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Shelf Life																												
Low Temperature Stability Impedance Rate(MAX)	<table border="1" style="width: 100%; text-align: center;"> <tr> <th>Rated Voltage(V)</th> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> <td>63</td> <td>100</td> </tr> <tr> <th>Z-25°C/Z+20°C</th> <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> <th>Z-40°C/Z+20°C</th> <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> </table>	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																				
Other JISC-5141 EIAJ RC-2372																												

◆ CASE SIZE TABLE



ΦD	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5		0.6		0.8		
α	L≤16:α=1.5			L≥20:α=2.0			

◆ RIPPLE CURRENT MULTIPLIER

Cap(μ F)	Frequency(Hz)				
	120	1K	10K	50K	100K
~33	0.42	0.70	0.90	0.95	1.00
39~270	0.50	0.73	0.92	0.96	1.00
330~680	0.55	0.77	0.94	0.97	1.00
820~1800	0.60	0.80	0.96	0.98	1.00
2200~	0.70	0.85	0.98	0.99	1.00

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		6.3V(0J)			
Cap(μF)	Code	Item	Size	Ripple Current	Impedance
100	107		5×11	250	0.30
220	227		6.3×11	405	0.15
330	337		6.3×11	405	0.15
470	477		8×11.5	760	0.072
680	687		8×11.5	900	0.072
			10×12.5	1030	0.053
1000	108		8×11.5	1030	0.060
			10×12.5	1030	0.053
1500	158		10×12.5	1490	0.038
			10×20	1820	0.027
2200	228		10×20	2160	0.025
3300	338		10×20	2160	0.025
			12.5×20	2360	0.025
4700	478		16×25	3460	0.015
6800	688		16×25	3460	0.015
10000	109		16×31.5	3680	0.015

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
 Maximum Impedance(Ω) at 20°C 100KHZ

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		10V(1A)			
Cap(μF)	Code	Item	Size	Ripple Current	Impedance
100	107		5×11	250	0.30
220	227		6.3×11	405	0.15
330	337		8×11.5	760	0.08
470	477		8×11.5	760	0.072
680	687		8×11.5	900	0.072
			10×12.5	1030	0.053
1000	108		10×12.5	1320	0.045
			10×16	1430	0.038
1500	158		10×16	1680	0.033
			10×20	1820	0.027
2200	228		10×20	2160	0.027
			12.5×20	2360	0.025
3300	338		12.5×25	2770	0.022
4700	478		16×25	3460	0.015
6800	688		16×31.5	3680	0.015

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
 Maximum Impedance(Ω) at 20°C 100KHZ

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		16V(1C)			
Cap(μF)	Code	Item	Size	Ripple Current	Impedance
47	476		5×11	250	0.30
100	107		6.3*11	405	0.25
220	227		8*11.5	760	0.15
330	337		8*11.5	760	0.10
470	477		8*11.5	890	0.079
			10*12.5	1030	0.053
680	687		8×16	1280	0.058
			10×16	1430	0.038
1000	108		10×16	1720	0.038
			10×20	1820	0.027
1500	158		10×20	1980	0.027
			12.5*20	2360	0.025
2200	228		12.5*20	2500	0.023
			12.5*25	2770	0.018
3300	338		16×25	3460	0.015
4700	478		16×31.5	3680	0.015

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
Maximum Impedance(Ω) at 20°C 100KHZ

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		25V(1E)			
Cap(μF)	Code	Item	Size	Ripple Current	Impedance
47	476		5×11	250	0.30
100	107		6.3×11	405	0.20
220	227		8×11.5	760	0.12
330	337		8×14	900	0.090
			10*12.5	1030	0.053
470	477		10×13	1280	0.045
			10×16	1430	0.038
680	687		10×20	1820	0.027
1000	108		10×20	1820	0.027
			12.5×20	2360	0.025
2200	228		12.5×25	3460	0.015
			16×25	3460	0.015
3300	338		16×25	3680	0.015

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
Maximum Impedance(Ω) at 20°C 100KHZ

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		35V(1V)			
Cap(μ F)	Code	Item	Size	Ripple Current	Impedance
22	226		5×11	250	0.50
33	336		5×11	250	0.45
47	476		6.3×11	405	0.30
100	107		8×11.5	760	0.10
220	227		8×14	880	0.079
			10×12.5	1030	0.053
330	337		10×12.5	1320	0.045
			10×16	1430	0.038
470	477		8×20	1600	0.038
			10×20	1820	0.027
680	687		10×20	1820	0.027
			12.5×20	2360	0.025
1000	108		12.5×20	2770	0.022
1500	158		16×25	3460	0.018
2200	228		16×31.5	3680	0.015

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
 Maximum Impedance(Ω) at 20°C 100KHZ

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		50V(1H)			
Cap(μ F)	Code	Item	Size	Ripple Current	Impedance
10	106		5×11	250	0.60
22	226		5×11	250	0.45
33	336		6.3×11	405	0.25
47	476		6.3×11	405	0.20
100	107		8×11.5	760	0.10
220	227		10×16	1430	0.038
330	337		10×16	1430	0.038
			10×20	1820	0.032
470	477		10×20	1820	0.032
			12.5×20	2360	0.025
680	687		12.5×25	2770	0.020
1000	108		12.5×25	2770	0.020
			16×25	3460	0.018
1500	158		16×31.5	3680	0.015

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
 Maximum Impedance(Ω) at 20°C 100KHZ

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		63V(1J)			
Cap(μ F)	Code	Item	Size	Ripple Current	Impedance
10	106		5×11	165	0.45
22	226		6.3×11	265	0.37
33	336		6.3×11	265	0.37
47	476		8×11.5	500	0.20
100	107		10×12.5	800	0.15
			10×16	945	0.10
220	227		10×16	1120	0.09
			10×25	1300	0.070
330	337		12.5×20	1495	0.040
470	477		16×20	1990	0.037
680	687		16×25	2780	0.030
1000	108		16×35.5	2835	0.020
2200	228		18×40	3500	0.020

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
 Maximum Impedance(Ω) at 20°C 100KHZ

◆ STANDARD RATINGS

size:ΦD×L(mm)

Voltage(code)		100V(2A)			
Cap(μ F)	Code	Item	Size	Ripple Current	Impedance
10	106		6.3×11	205	0.50
22	226		8*11.5	355	0.30
33	336		10×12.5	450	0.25
47	476		10×12.5	450	0.25
			10×16	580	0.20
68	686		10×16	700	0.25
100	107		10×20	800	0.18
220	227		13×20	1500	0.090
330	337		16×25	1700	0.040
470	477		16×35	1900	0.030

Maximum Allowable Ripple Current(mA rms) at 105°C 100KHz
 Maximum Impedance(Ω) at 20°C 100KHZ