Aluminum Electrolytic Capacitors

YUSCON®

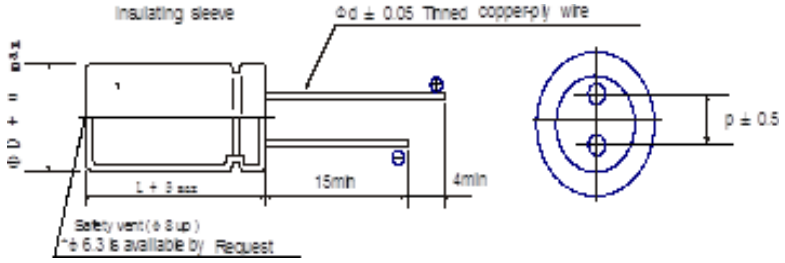
TM Series

- ●Low impedance for high frequency ,Anti-solent Desingn
- ● Load life of 2000 hours at 105 depending on case size.
- ●Radial type for switching power supply
- ● Rohs compliance.

■ SPECIFICATIONS

Item	Characteristics
Operating Temperature Range	- 40 ~ +105℃
Voltage Range	6.3 ~100 V.DC
Nominal Cap. Range	10~ 12000 μF
Capacitance Tolerance	- 20% ~ + 20% (at 20℃, 120Hz)
Leakage Current	I = 0.01CV or 3(μA) whichever is greater.(after 2 minutes) where,I: Max Leakage Current(μA), C: Nominal Capacitance(μF), V: Rated Voltage(V) (at 20℃)
Dissipation Factor (tanδ) (at 120Hz, +20℃)	WV 6.3 10 16 25 35 50 63 100 tanδ 0.22 0.19 0.16 0.14 0.12 1.00 0.09 0.08 Add 0.02 per 1,000 μF for more then 1,000 μF items
Low Temp. Impedance Stability at 120Hz	W. V . 6.3 10 16 25 35 50 63 100 Z(-25℃)/ Z(+25℃) 4 3 2 2 2 2 2 2 Z(-40℃)/ Z(+25℃) 8 6 4 4 3 3 3 3
Impedance (Ω)	See case size table
High Temp. Load Test	After 2000 hours, application of DC rated working voltage at 105℃, the capacitor shall meet the following limits: Capacitance change … ≦±20% of the initial measured value Tan δ …≦200% of the initial specified value DC leakage current …≦ the initial specified value
High Temp. Non-Load Test	After storage for 1000 hours at 105℃ with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High temperature loading" can be met.

●DRAWING



Unit:(mm)

φD	5	6.3	8	10	13	16	18
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φd	0.5			0.6		0.8	
β	1.5						
α	0.5						

▼ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq.(HZ) / Cap(μF)	120	1K	10K	100K
6.8~ 680	0.49	0.73	0.92	1.00
820 ~ 1800	0.60	0.80	0.96	1.00
2200 ~ 18000	0.70	0.85	0.98	1.00

◆ PART NUMBERING SYSTEM

TM	□□□	□	□□□	□	□□
Series	Rated Cap.	Cap. Tolerance	Rated Voltage	Case Size D	Case Size L

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■STANDARD RATINGS

WV(Vdc) / Parameter / Cap (μF)	6.3V ΦDxL (mm)	Ripple current (mArms) 105℃,100KHZ	Impedance 20℃ 100KHZ	Impedance –10℃ 100KHZ
100	5X11	155	0.850	1.700
220	6.3X11	255	0.350	0.700
330	8X11.5	330	0.250	0.500
470	8X11.5	550	0.140	0.280
560	8X16	635	0.120	0.240
680	8X20	695	0.100	0.200
820	8X20	795	0.090	0.180
1000	10X16	820	0.080	0.160
1200	10X16	1060	0.065	0.130
1500	10X20	1240	0.055	0.110
2200	10X20	1450	0.043	0.086
2700	13X20	1700	0.038	0.072
3300	13X25	1750	0.034	0.068
3900	13X30	1980	0.031	0.062
4700	13X30	2230	0.029	0.058
5600	13X34	2460	0.026	0.052
6800	16X31.5	2510	0.024	0.048
8200	16X35.5	2770	0.022	0.044
10000	16X40	3110	0.020	0.040

WV(Vdc) / Parameter / Cap (μF)	10V ΦDxL (mm)	Ripple current (mArms) 105℃,100KHZ	Impedance 20℃ 100KHZ	Impedance –10℃ 100KHZ
100	6.3X11	170	0.800	1.600
220	6.3X11	260	0.240	0.480
470	8X14	550	0.120	0.240
680	8X20	640	0.085	0.170
1000	10X16	1010	0.060	0.120
1000	10X20	1060	0.055	0.110
1200	10X20	1240	0.050	0.100
1500	10X25	1450	0.045	0.090
2200	10X28	1700	0.034	0.680
2200	13X25	1780	0.030	0.060
2700	13X30	1980	0.028	0.056
3300	13X30	2230	0.026	0.052
4700	16X31.5	2510	0.023	0.046
6800	16X35	2770	0.020	0.040
8200	18X35.5	3110	0.019	0.038
8200	18X31.5	3200	0.018	0.036
10000	18X35.5	3250	0.017	0.034
10000	18X40	3300	0.016	0.032
12000	18X40	3450	0.015	0.030

WV(Vdc) / Parameter / Cap (μF)	16V ΦDxL (mm)	Ripple current mAr.m.s (mArms)	Impedance 20℃ 100KHZ	Impedance –10℃ 100KHZ
100	6.3X11	185	0.350	0.700
120	6.3X11	215	0.330	0.660
220	8X11.5	340	0.160	0.320
330	8X14	495	0.120	0.240
470	8X16	750	0.090	0.180
560	8X20	810	0.075	0.150
680	8X20	1060	0.065	0.130
820	10X20	1240	0.055	0.110
1000	10X20	1380	0.047	0.094
1200	10X20	1450	0.041	0.082
2200	13X25	1980	0.028	0.056
2700	13X25	2230	0.025	0.050
3300	13X30	2460	0.023	0.046
3900	16X30	2510	0.022	0.044
4700	16X30	2770	0.020	0.040

WV(Vdc) / Parameter / Cap (μF)	25V ΦDxL (mm)	Ripple current (mArms) 105℃,100KHZ	Impedance 20℃ 100KHZ	Impedance –10℃ 100KHZ
47	5X11	220	0.500	1.000
100	8X11.5	270	0.240	0.048
220	8X14	495	0.180	0.036
330	6.3X15	231	0.270	0.540
330	8X16	640	0.120	0.024
470	10X20	1060	0.065	0.130
680	10X25	1280	0.046	0.096
820	10X25	1450	0.041	0.082
1000	13X25	1700	0.036	0.072
1200	13X25	1750	0.032	0.064
1500	13X30	1980	0.029	0.058
2200	13X34	2460	0.024	0.048
2700	16X30	2510	0.022	0.044
3300	16X35	2770	0.020	0.040
4700	18X35.5	3300	0.018	0.036

TM Series

■STANDARD RATINGS

WV(Vdc) / Parameter / Cap (μF)	35V ΦDxL (mm)	Ripple current (mArms) 105℃,100KHZ	Impedance 20℃ 100KHZ	Impedance −10℃ 100KHZ
56	6.3X11	255	0.28	0.56
100	8X11.5	350	0.35	0.7
150	8X11.5	420	0.25	0.5
220	8X20	640	0.12	0.24
330	10X16	1060	0.08	0.16
470	10X25	1300	0.055	0.11
560	10X25	1450	0.041	0.082
680	13X25	1700	0.036	0.072
1000	13X25	1980	0.027	0.054
1200	13X30	2230	0.026	0.052
1500	13X35	2460	0.024	0.048
1800	16X31.5	2930	0.023	0.046
2200	16X35	2770	0.020	0.04
2700	16X35	3110	0.018	0.036
3300	18X40	3300	0.017	0.034
3900	18X40	3680	0.016	0.032

WV(Vdc) / Parameter / Cap (μF)	50V ΦDxL (mm)	Ripple current (mArms) 105℃,100KHZ	Impedance 20℃ 100KHZ	Impedance −10℃ 100KHZ
56	8X11.5	310	0.25	0.50
68	8X11.5	415	0.20	0.40
100	8X16	510	0.14	0.28
150	10X16	680	0.10	0.20
220	10X20	1060	0.075	0.15
330	10X25	1230	0.055	0.110
470	13X25	1500	0.044	0.088
560	13X25	1680	0.04	0.08
680	13X30	1900	0.036	0.072
820	13X34	2120	0.033	0.066
1000	16X30	2150	0.030	0.060
1200	16X30	2320	0.028	0.056
1500	16X35	2650	0.026	0.052
2200	18X40	2790	0.024	0.048

WV(Vdc) / Parameter / Cap (μF)	63V ΦDxL (mm)	Ripple current (mArms) 105℃,100KHZ	Impedance 20℃ 100KHZ	Impedance −10℃ 100KHZ
47	8X11.5	290	0.56	1.12
56	8X11.5	320	0.38	0.76
68	10X16	480	0.31	0.62
100	10X16	590	0.24	0.48
120	10X16	660	0.16	0.32
150	10X20	790	0.11	0.22
220	10X25	1020	0.082	0.164
330	10X25	1200	0.064	0.128
470	16X25	1750	0.048	0.096
560	16X25	1830	0.044	0.088
680	16X31.5	2070	0.04	0.080
820	16X31.5	2300	0.035	0.070
1000	16X35.5	2450	0.031	0.062
1200	18X31.5	2500	0.026	0.052
1500	18X31.5	2700	0.025	0.050

WV(Vdc) / Parameter / Cap (μF)	100V ΦDxL (mm)	Ripple current (mArms) 105℃,100KHZ	Impedance 20℃ 100KHZ	Impedance −10℃ 100KHZ
10	6.3X11	130	1.77	3.54
22	8X11.5	220	0.85	1.70
33	8X16	320	0.69	1.38
47	8X16	370	0.58	1.18
56	10X16	400	0.42	0.84
100	10X25	560	0.30	0.60
120	10X25	660	0.22	0.44
150	13X20	780	0.174	0.348
180	13X20	820	0.142	0.284
220	13X25	880	0.13	0.26
330	16X25	1440	0.10	0.20
470	16X31.5	1650	0.09	0.18
560	16X35.5	1720	0.085	0.17
680	18X35.5	1790	0.08	0.16
820	18X35.5	1840	0.071	0.14