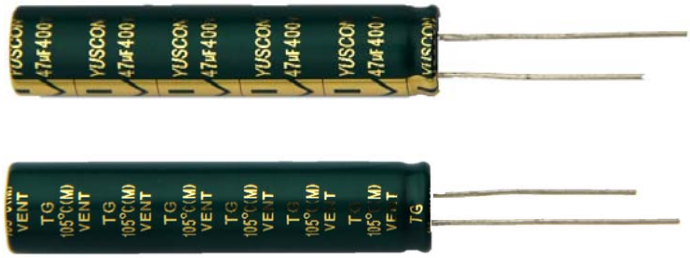


Aluminum Electrolytic Capacitors

YUSCON®

TG SERIES

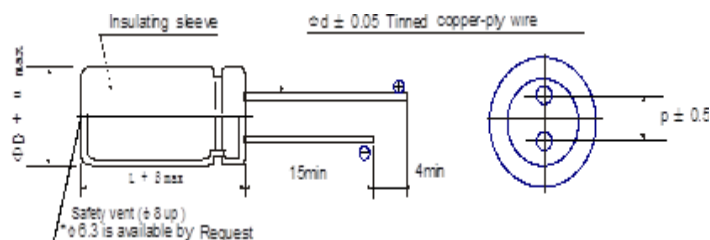
- 105°C, 8,000~10,000hours assured
- Suitable for switching power supplies. UPS, Ballast
- Smaller case size current
- Rohs compliance.



■ SPECIFICATIONS

Item	Characteristics	
Operating Temperature Range	-40°C ~ +105°C	-25°C ~ +105°C
Voltage Range	160 ~ 400 V.DC	450V.DC
Nominal Cap. Range	6.8 ~ 330 µF	6.8 ~ 100 µF
Leakage Current	I = 0.02CV + 15(µA) whichever is greater.(after 5 minutes) where, I: Max Leakage Current(µA), C: Nominal Capacitance(µF), V: Rated Voltage(V) (at 20°C)	
Dissipation Factor (tanδ) (at 20°C 120HZ)	WV	160 200 250 350 400 450
	tanδ	0.20 0.20 0.20 0.24 0.24 0.24
Add 0.02 per 1,000µF for more than 1,000µF items .		
Low Temperature Characteristics Stability at 120Hz	W.V.	160 200 250 350 400 450
	Z(-25°C)/Z(+20°C)	3 3 3 5 5 6
	Z(-40°C)/Z(+20°C)	6 6 6 6 6 -
High Temp. Load Test	After ΦD=Φ10: 8000hrs, ΦD ≧ Φ13: 10000hrs, application of DC rated working.	
	application of DC rated working voltage at +105°C, the capacitor shall meet the following limits .	
	Capacitance Change	... ≦ ±25% of the initial measured value
	Tan δ	... ≦ 200% of the initial specified value
High Temp. Non-Load Test	DC Leakage Current	... ≦ the initial specified value
	After storage for 1000 hours at 105°C 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



ΦD	5	6.3	8	10	13	16	18
P	2	2.5	3.5	5.0	5.0	7.5	7.5
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8
β	1.0			1.5			
α	0.5						

▼ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Freq.(Hz)	120	1K	10K	100K up
Cap.(µF)				
6.8~82	1.00	1.75	2.25	2.50
100up	1.00	1.67	2.05	2.25

◆ PART NUMBERING SYSTEM

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

TG Series

■ STANDARD RATINGS

WV(Vdc) Parameter Cap (μF)	160V			WV(Vdc) Parameter Cap (μF)	200V		
	ΦDxL	Ripple current			ΦDxL	Ripple current	
	(mm)	120KHZ	100KHZ		(mm)	120KHZ	100KHZ
6.8				6.8			
10	10X16	125	313	10	10X16	125	313
22	10X20	200	500	22	10X20	200	500
33	10X20	250	625	33	10X20	260	650
47	10X20	300	750	47	13X20	390	975
68	13X20	470	1175	68	13X20	470	1175
82	13X20	510	1275	82	16X20	550	1375
100	13X25 16X20	620 630	1395 1418	100	16X20	630	1418
120				120			
150	16X20	770	1733	150	16X25	840	1890
220	16X25	1020	2295	220	18X25	1050	2363
330	18X31.5	1390	3128	330	18X35.5	1430	3218

WV(Vdc) Parameter	250V			WV(Vdc) Parameter	350V		
	ΦDxL	Ripple current			ΦDxL	Ripple current	
	(mm)	120KHZ	100KHZ		(mm)	120KHZ	100KHZ
Cap (μF)							
6.8				6.8	10X16	110	275
10	10X20	140	350	10	10X20	140	350
22	10X20	200	500	22	13X20	260	650
33	13X20	320	800	33	16X20	360	900
47	13X20	390	975	47	16X20	430	1075
68	16X20	520	1300	68	16X25 18X20	560 550	1400 1375
82	16X20	550	1375	82	18X25	610	1525
100	16X25	680	1530	100	18X25	700	1575
120	18X25			120	18X31.5	830	1868
150		860	1935	150	18X35.5	960	2160
220	18X31.5	1130	2543	220			
330				330			

WV(Vdc) Parameter	400V			WV(Vdc) Parameter	450V		
	ΦDxL	Ripple current			ΦDxL	Ripple current	
	(mm)	20℃	−10℃		(mm)	20℃	−10℃
Cap (μF)		120KHZ	100KHZ	Cap (μF)		120KHZ	100KHZ
6.8	10X16	110	275	6.8	10X20	110	275
10	10X20	140	350	10	13X20	180	450
22	13X20	260	650	22	16X20	290	725
33	16X20	360	900	33	16X25 18X20	390 380	975 950
47	16X25 18X20	470 450	1175 1125	47	18X25	480	1200
68	18X25	585	1463	68	18X31.5	630	1575
82	18X25	610	1525	82	18X35.5	715	1788
100	18X31.5	765	1721	100	18X40	800	1800
120	18X35.5	865	1946				
150	18X40	985	2216				