

Data Sheet

Customer: _____

Product: Aluminum Electrolytic Capacitors – ESG Series _____

Size : 10x16mm ~ 22x41mm _____

Issued Date: 20-May.-2016 _____

Edition: Ver. 1 _____

Record of change

Date	Ver.	Description	Page
20-May-2016	1		

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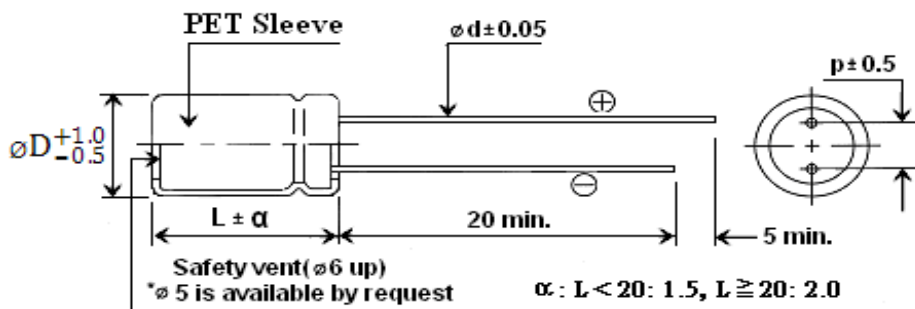
Prepared by	Checked by	Approved by	Accepted by (customer)
20-May-2016	20-May-2016	20-May-2016	
<i>Andy Hsu</i>	<i>Hwa Wu</i>	<i>Hwa Wu</i>	

- ESG series capacitors are suitable for electronic ballast and other long life equipment.
- Load life 105°C, 5000 hours assured.

Characteristics

Voltage Range	160 ~500V							
Temperature Range	-25 ~ + 105°C							
Capacitance Range	4.7 to 330 uF							
Leakage Current	$I \leq 0.04CV$ or 10uA, whichever is greater (After 2 minutes)							
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C (10% Tol. is available upon request)							
Dissipation Factor (at 20°C, 120Hz)	WV	160	200	250	350	400	450	500
	tanδ	0.12	0.12	0.12	0.15	0.15	0.17	0.20
Stability at Low Temperature (120Hz)	Rated Voltage (V)	160	200	250	350	400	450	500
	Z-25°C/Z 20°C	3	3	3	6	6	6	6
Load life after application of the rated voltage for 5000 hrs at 105°C	Leakage current	Less than initial specified value						
	Capacitance change	Within $\pm 20\%$ of initial value						
	tanδ	200% or less of initial specified value						
Shelf life (at 105°C)	After storage for 1000 hours at 105°C with no voltage applied, the capacitor shall meet the specified limit in load life. Pre-treatment for measurement shall be conducted after application of DC working voltage for 30 minutes.							

Diagram of dimensions



Drawing

D φ	10	13	16	18	22
p	5.0	5.0	7.5	7.5	10.0
d φ	0.6	0.6	0.8	0.8	0.8

Ripple Current Coefficients

Frequency (Hz)	120	1K	10K	100K
Multiplier	0.52	0.79	0.89	1.0

Part Numbering System

ESG □ □ □ □ □ □ **B** □ □
Series Capacitance Tolerance Rated Voltage Package Extended Code

Case size & Maximum Ripple Current (mA rms 105°C 100KHz)

Cap. WV	160V		200V		250V		350V	
	uF	Size	R.C.	Size	R.C.	Size	R.C.	Size
10	10x16	219	10x16 10x20	233 399	10x16 10x20	233 380	10x20	342
22	10x16 10x20	285 371	10x16 10x20	305 485	13x20	665	13x20	475
33	10x20 13x20	380 475	10x20 13x20	420 665	13x20 13x25	505 760	13x25	608
47	10x20 13x20	395 570	13x20	780	13x25	950	16x25	700
68	13x20 13x25	645 741	13x25	950	16x25	1000	16x31.5	765
100	13x25 16x25	780 1064	16x20 16x25	825 1280	16x31.5 18x31.5	1015 1254	18x31.5	673
150	16x25 16x31.5	935 1300	16x31.5	1090	18x31.5	1270		
220	16x31.5	1387	18x31.5	1843	22x41	1425		
330	18x41	1440						

Cap. WV	400V		450V		500V	
	uF	Size	R.C.	Size	R.C.	Size
4.7	10x16	147	10x16	158	13x20	156
6.8	10x16	180	10x20	255	13x20	183
10	10x20 13x20	255 342	13x20 13x25	247 420	13x25	247
22	13x25	608	16x25	610	16x25	323
33	16x25	665	16x31.5	735	16x31.5	399
47	16x31.5	855	16x35.5 18x31.5	570 865	16x35.5	684
68	18x31.5	900	18x41	1000	18x35.5	874
100	18x41	1015				