

■ GR  
GR Series Aluminum Electrolytic Capacitor

Feature

- \* : 105 3000  
Load life: 105 3000 hours.
- \* RoHS  
Compliant to the RoHS Directive.

Application

- \* UPS  
Suited for smoothing circuits for general purpose inverter control for F.A. Machine designed for use as input filter capacitor for current.

Part Number

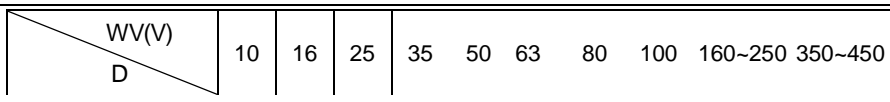
8 2 2 2 V A M B 1 2 0 G R N 0 8 1 0

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## Product Structure

D 2.0 mm	L 3.0 mm	F 1.0 mm
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## Main specifications

Item	Performance Characteristics	
Rated Voltage Range	10~100V.DC	160~450V.DC
Operating Temperature Range	-40 ~+105	-25 ~+105
Nominal Capacitance Range	220~680000 $\mu$ F	
Capacitance Tolerance	$\pm$ 20% M +25 120Hz	
Leakage Current (25 )	Rated working voltage (V)	10~450
	Leakage current	5 I 0.02CV( A) 5(mA) After 5 min . I 0.02CV( A) 5(mA) Whichever is greater.
	C $\mu$ F Nominal Capacitance in $\mu$ F V V Rated working voltage in V	
DF Dissipation Factor		
Surge Voltage		

<p>Temperature Stability</p>	
<p>Load life</p>	<p>+105 3000 ,</p> <p>After application of rated working voltage with max permissible ripple current specified at +105 for 3000 hours, capacitors meet the characteristics requirements measured at +20 listed at below:</p> <p>1 : ±15%          Capacitance change : ±15% initial measured value</p> <p>2 :          Leakage current: initial specified value</p> <p>3 150%          Dissipation factor: 150% initial specified value</p>
<p>Shelf life</p>	<p>+105 1000 , JIS-C-5101-4 30min,,          24 48 :</p> <p>After leaving capacitors under no load at +105 for 1000 hours, According to JIS-C-5101-4, apply the rated DC voltage for 30 minutes and store the capacitors under room temperature for 24-48 hours. The capacitors meet the characteristics listed as below:</p> <p>1 : ±20%          Capacitance change : ±20% initial measured value</p> <p>2 : 200%          Leakage current: 200%</p>

**Dimensions and ripple current**

WV/V Cap/ $\mu$ F	10		16		25		35		50		63		80	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
4700													35x80	3.7
5600													35x80	4.1
6800													35x80	4.4
8200											35x80	4.3	35x100	5.3
10000									35x80	4.8	35x80	5.1	35x120	5.9
12000									35x80	5.3	35x100	5.8	50x80	7.2
15000								35x80	5.2	35x100	5.5	35x120		

680000	90x140	26.5	90x140	29.9										
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(1) Case Size DxL(mm)

(2) Max allowable ripple current (A rms +105 ,120Hz)

VV/V Cap/μF	100		160		200		250		350		400		450	
	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)	(1)	(2)
390									35 80	1.5	35 80	1.5		
470									35 80	1.7	35 100	1.8		
560									35 100	1.8	35 100	1.9		
680							35 80	1.8	35 100	2.1	50 80	2.4		
820					35 80	2.0	35 80	2.0	35 120	2.4	50 100	2.5		
1000					35 80	2.3	35 100	2.4	50 100	2.7	50 120	3.3		
1200			35 80	2.4	35 80	2.4	35 100	2.5	50 100	3.2	65 100	3.8		
1500			35 80	2.7	35 100	2.9	35 120	3.0	50 120	3.5	65 120	4.6	65 100	3.8
1800			35 80	2.8	35 100	3.0	35 120	3.1	65 100	3.9	76 100	4.6	65 120	4.8
2200			35 100	3.2	35 120	3.4	50 120	3.9	65 120	4.6	76 120	5.3	76 100	5.1

Diameter (mm)	Foam card diameter (mm)	Height (mm)	/ Pcs/box	Plastic bag size (mm)	Outsize box size (mm)
65	70	110-130	16	250x200x0.07	V-2(395X390X195)
65	70	140-150	16	250x200x0.07	V-0(395X390X210)
76	83	80-100	16	185x180x0.07	V-3(395X390X165)
76	83	110-130	16	250x200x0.07	V-2(395X390X195)
76	83	140-150	16	250x200x0.07	V-0(395X390X210)
90	97	80-100	9	185x180x0.07	V-3(395X390X165)
90	97	110-130	9	250x200x0.07	V-2(395X390X195)
90	97	140-150	9	250x200x0.07	V-0(395X390X210)