

## GV Series

- High ripple current
- Load life 5,000 hours at 85°C



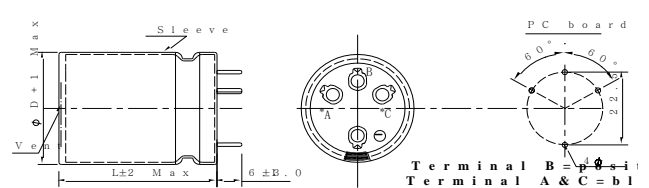
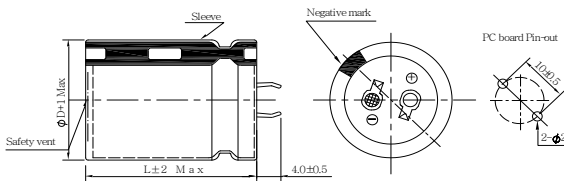
### ◆ SPECIFICATIONS

Item	Performance Characteristics										
Category Temperature Range	-25 ~ +85°C										
Working Voltage Range	200 ~ 500Vdc										
Capacitance Range	56 ~ 2200 μF										
Capacitance Tolerance	±20% (at 25°C and 120Hz)										
Dissipation Factor (tanδ) (at 25°C, 120Hz)	<table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200 ~ 450</td> <td>500</td> </tr> <tr> <td>tanδ(Max)</td> <td>0.15</td> <td>0.20</td> </tr> </table>	Rated Voltage (V)	200 ~ 450	500	tanδ(Max)	0.15	0.20				
	Rated Voltage (V)	200 ~ 450	500								
tanδ(Max)	0.15	0.20									
The above values should be increased by 0.02 for every additional 1000μF											
Leakage Current	I=0.02CV or 3000μA, whichever is smaller I : Leakage current (μA) C : Rated capacitance (μF) V : Rated voltage (V) Impress the rated voltage for 5 minutes										
Low Temperature Characteristics Impedance Ratio(MAX)	<table border="1"> <tr> <td>Rated voltage (V)</td> <td>200 ~250</td> <td>400</td> <td>420 ~ 450</td> <td>500</td> </tr> <tr> <td>Z(-25°C)/Z(+20°C)</td> <td>4</td> <td>4</td> <td>8</td> <td>8</td> </tr> </table> <p style="text-align: right;">(at 120Hz)</p>	Rated voltage (V)	200 ~250	400	420 ~ 450	500	Z(-25°C)/Z(+20°C)	4	4	8	8
Rated voltage (V)	200 ~250	400	420 ~ 450	500							
Z(-25°C)/Z(+20°C)	4	4	8	8							
Endurance	The following specifications shall be satisfied when the capacitors are restored to 25°C after subjected to DC voltage with the rated ripple current is applied for 5,000 hours at 85°C <table border="1"> <tr> <td>Capacitance change</td> <td>≡ ±20% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≡ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≡ specified value</td> </tr> </table>	Capacitance change	≡ ±20% of the initial value	Dissipation factor(tanδ)	≡ 200% of the specified value	Leakage current	≡ specified value				
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Dissipation factor(tanδ)	≡ 200% of the specified value										
Leakage current	≡ specified value										
Shelf Life	The following requirements shall be satisfied when the capacitor are restored to 25°C after exposing them for 1,000 hours at 85°C without voltage applied. <table border="1"> <tr> <td>Capacitance change</td> <td>≡ ±20% of the initial value</td> </tr> <tr> <td>Dissipation factor(tanδ)</td> <td>≡ 200% of the specified value</td> </tr> <tr> <td>Leakage current</td> <td>≡ 200% of the specified value</td> </tr> </table>	Capacitance change	≡ ±20% of the initial value	Dissipation factor(tanδ)	≡ 200% of the specified value	Leakage current	≡ 200% of the specified value				
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Dissipation factor(tanδ)	≡ 200% of the specified value										
Leakage current	≡ 200% of the specified value										
Others	Conforms to JIS-C-5101-4 (1998), characteristic W										

### ◆ DIMENSIONS (mm)

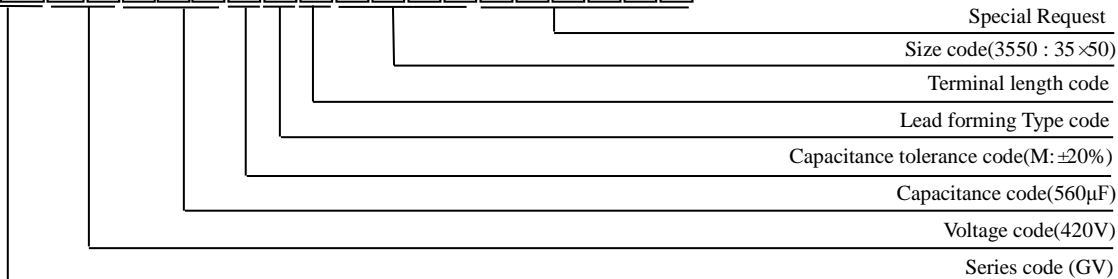
Terminal Code : ND : Standard

Terminal Code :K6 (ø35)



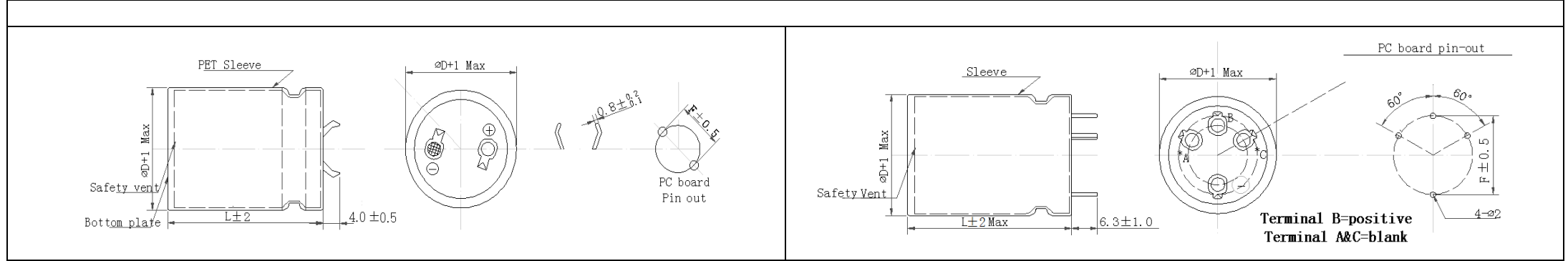
### ◆ PART NUMBER SYSTEM( Example : 420V 560μF )

G V 2 S 5 6 1 M N D 3 5 5 0 Y



## Aluminum Electrolytic Capacitor

<b>Customer</b>	<b>Digi-Key</b>	<b>SERIES</b>	<b>GV</b>	<b>NO.:</b>	<b>PUBLISH DATE</b>	<b>2022-03-25</b>
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No.	CHINSAN Part No.	Customer Part No.	Capacitance (uF)	Tolerance On rated Capacitance (%)	Working Voltage (Vdc)	Surge Voltage (Vdc)	Category Temp Range (°C)	Tanδ @ 25°C (120Hz) (Max)	Leakage Current (uA) (2 min.)	Rated Ripple Current (mA rms) @ 85°C 120Hz	Rated Ripple Current (mA rms) @ 85°C 100kHz	ESR @25°C (mΩ max/ 120Hz)	Impedance @20°C (mΩ max/ 100kHz)	Endurance @ 85°C (Hours)	Dimensions (mm)					Appearance Drawing No
															D Φ	L	a	d	F	
1	GV2E152MND3551	/	1500 μF	±20%	250 V	/	-25~+85	/	/	4000	/	/	/	5000	35	51	/	/	10	---
2	GV2E182MND3555	/	1800 μF	±20%	250 V	/	-25~+85	/	/	5000	/	/	/	5000	35	55	/	/	10	---
3	GV2S102MK63570Y	/	1000 μF	±20%	420 V	/	-25~+85	/	/	3720	/	/	/	5000	35	70	/	/	22.5	---

※Test leakage current before testing dissipation factor and capacitance during the electric characteristic test.

<b>REMARKS:</b>	<b>APPROVED BY</b>	<b>CHECKED BY</b>	<b>PREPARED BY</b>
Sleeve Color: Dark Blue. Suffix Y represents assembly without gasket.	张洪斌	曾爱娥	梁慧妍