Taiwan Chinsan Electronic Ind., Co., Ltd.
Chinsan Electronic Since 1970
Address: No.1, Alley 11, Lane 68, Sec.1, KwangFu Rd., SanChung Dist., New Taipei City 24158, Taiwan
TEL: +886 2 2995 0535 http://www.chinsan.com/products/

GS Series



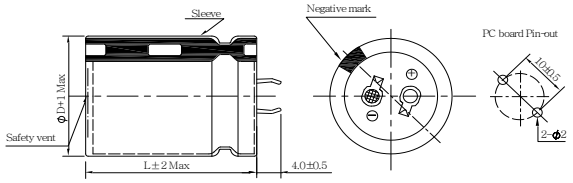
- **Standard, Long life down size and high ripple current**

◆ SPECIFICATIONS

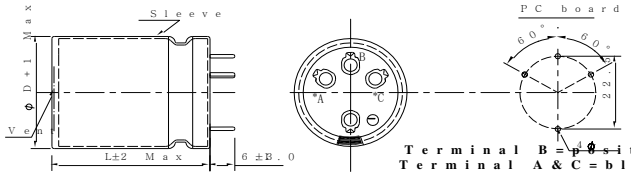
Item	Performance Characteristics
Category Temperature Range	-25 ~ +85℃
Working Voltage Range	200 ~ 500Vdc
Capacitance Range	68 ~ 2,200 μF
Capacitance Tolerance	±20% (at 25℃ and 120Hz)
Dissipation Factor (tanδ) (at 25℃, 120Hz)	Rated Voltage (V): 200 / 220 / 250 / 400 / 420 / 450 / 500 tanδ(Max): 0.20 / 0.20 / 0.20 / 0.20 / 0.20 / 0.20 / 0.20 The above value 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)	Rated voltage (V): 200 ~250 / 400 / 420 ~ 450 / 500 Z(-25℃)/Z(+20℃): 4 / 4 / 8 / 8 (at 120Hz)
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 3,000 hours at 85°C. Capacitance change: ≦ ±20% of the initial value 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℃ after exposing them for 1,000 hours at 85℃ without voltage applied. Capacitance change: ≦ ±20% of the initial value 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 : 250V 560μF)

G	S	2	E	5	6	1	M	N	D	2	2	5	0	Y					

- Special Request
- Size code(2250 : 22×50)
- Terminal length code
- Lead forming Type code
- Capacitance tolerance code(M:±20%)
- Capacitance code(560μF)
- Voltage code(250V)
- Series code (GS)

Chinsan Electronic Since 1970

Taiwan Chinsan Electronic Ind., Co., Ltd.

Address: No.1, Alley 11, Lane 68, Sec.1, KwangFu Rd., SanChung Dist., New Taipei City 24158, Taiwan
TEL: +886 2 2995 0535 http://www.chinsan.com/products/

Aluminum Electrolytic Capacitor

Customer	Digi-Key	SERIES	GS	NO.:	PUBLISH DATE	2022-03-25

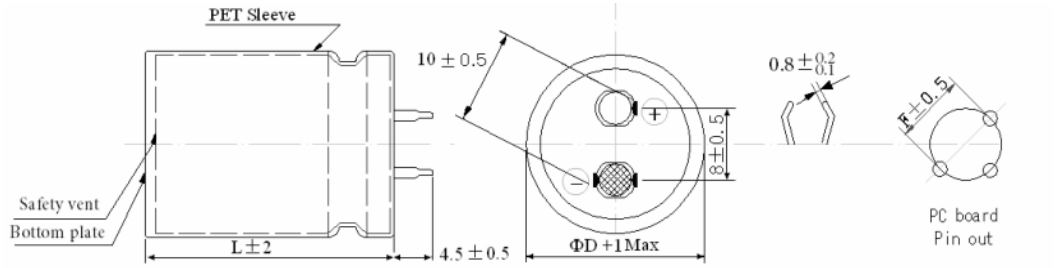


FIG-1

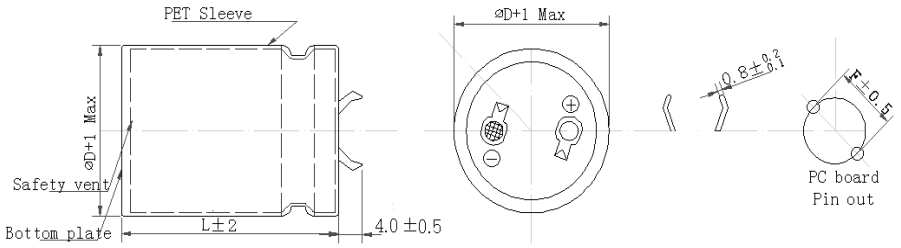


FIG-2

No.	CHINSAN Part No.	Customer Part No.	Capacitance (uF)	Tolerance On rated Capacitance (%)	Working Voltage (Vdc)	Surge Voltage (Vdc)	Category Temp Range (℃)	Tanδ @ 25℃ (120Hz) (Max)	Leakage Current (uA) (2 min.)	Rated Ripple Current (mA rms) @ 85℃ 120Hz	Rated Ripple Current (mA rms) @ 85℃ 100kHz	ESR @25℃ (mΩ max/ 120Hz)	Impedance @20℃ (mΩ max/ 100kHz)	Endurance @ 85℃ (Hours)	Dimensions (mm)					Appearance Drawing No
															D Φ	L	a	d	F	
1	GS2G471MW43040A	/	470 µF	±20%	400 V	/	-25~+85	/	/	2510	/	/	350	3000	30	40	/	/	10	FIG-1
2	GS1H222MND2225	/	2200 µF	±20%	50 V	/	-40~+85	/	/	1930	/	/	/	3000	22	25	/	/	10	FIG-2
3	GS2C102MND2250	/	1000 µF	±20%	160 V	/	-25~+85	/	/	3110	/	/	/	3000	22	50	/	/	10	FIG-2
4	GS2E681MND2255	/	680 µF	±20%	250 V	/	-25~+85	/	/	2650	/	/	/	3000	22	55	/	/	10	FIG-2
5	GS2G331MND3531	/	330 µF	±20%	400 V	/	-25~+85	/	/	1870	/	/	/	3000	35	31	/	/	10	FIG-2
6	GS2G471MND3040	/	470 µF	±20%	400 V	/	-25~+85	/	/	2120	/	/	/	3000	30	40	/	/	10	FIG-2
7	GS2G331MW43033A	/	330 µF	±20%	400 V	/	-25~+85	/	/	1950	/	500	/	3000	30	33	/	/	10	FIG-1
8	GS2W471MW43045A	/	470 µF	±20%	450 V	/	-25~+85	/	/	2620	/	500	/	3000	30	45	/	/	10	FIG-1
9	GS2G121MND2230	/	120 µF	±20%	400 V	/	-25~+85	/	/	1040	/	1659	/	3000	22	30	/	/	10	FIG-2
10	GS2E561MW42535R	/	560 µF	±20%	250 V	/	-40~+85	/	/	2500	/	360	/	3000	25	35	/	/	10	FIG-1

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

REMARKS:	APPROVED BY	CHECKED BY	PREPARED BY
Sleeve Color: Dark Blue.	张洪斌	曾爱娥	梁慧妍

Chinsan Electronic Since 1970

Taiwan Chinsan Electronic Ind., Co., Ltd.

Address: No.1, Alley 11, Lane 68, Sec.1, KwangFu Rd., SanChung Dist., New Taipei City 24158, Taiwan
TEL: +886 2 2995 0535 http://www.chinsan.com/products/

Aluminum Electrolytic Capacitor

Customer	Digi-Key	SERIES	GS	NO.:	PUBLISH DATE	2022-03-25

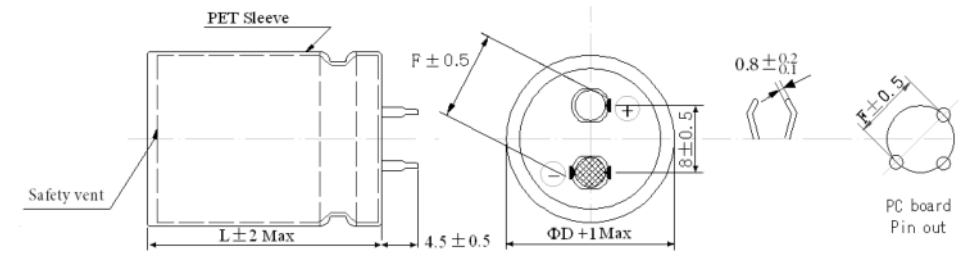


FIG-1

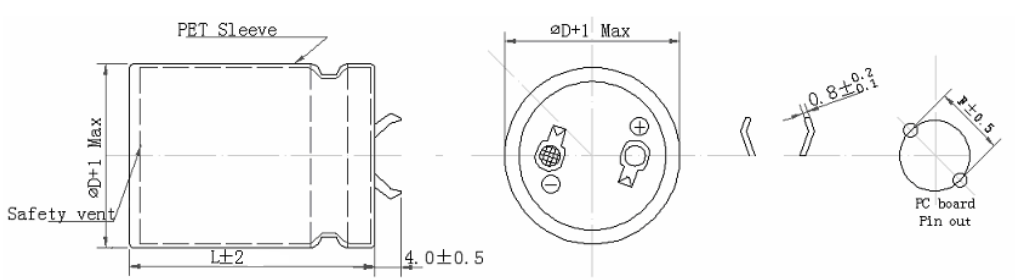


FIG-2

No.	CHINSAN Part No.	Customer Part No.	Capacitance (uF)	Tolerance On rated Capacitance (%)	Working Voltage (Vdc)	Surge Voltage (Vdc)	Category Temp Range (℃)	Tanδ @ 25℃ (120Hz) (Max)	Leakage Current (uA) (2 min.)	Rated Ripple Current (mA rms) @ 85℃ 120Hz	Rated Ripple Current (mA rms) @ 85℃ 100kHz	ESR @25℃ (mΩ max/ 120Hz)	Impedance @20℃ (mΩ max/ 100kHz)	Endurance @ 85℃ (Hours)	Dimensions (mm)					Appearance Drawing No
															D Φ	L	a	d	F	
1	GS2G331MW43040Y	/	330 µF	±20%	400 V	/	-25~+85	/	/	2110	/	600	/	3000	30	40	/	/	10	FIG-1
2	GS2S821MND3550RY	/	820 µF	±20%	420 V	/	-25~+85	/	/	3740	/	/	/	3000	35	50	/	/	10	FIG-2
3	GS1E153MND3025Y	/	15000 µF	±20%	25 V	/	-40~+85	/	/	3750	/	/	/	3000	30	25	/	/	10	FIG-2

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

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