

GS

Series

GH

Series

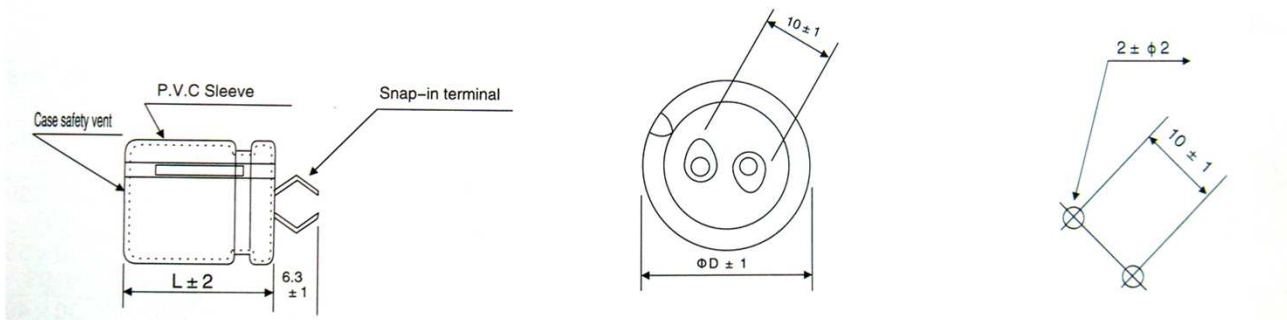
- GS Series large size capacitors have "self-standing" terminals and can be directly soldered to printed circuit boards without any fixing clamps or adhesive agents. They are easily fixed to printed circuit boards due to the specially designed terminals



SPECIFICATIONS

Item	Characteristics							
Series	GS					GH		
Category Temperature Range	-40 ~ +85℃				-25 ~ +85℃		-40 +105℃	-25 ~ +105℃
Voltage Range	16 ~ 100V.DC				160 ~ 450V.DC		16 ~ 100V.DC	160 ~450V.DC
Nominal Cap. Range	47 ~ 33000μF							
Capacitance Tolerance	± 20 % (at 120Hz , 20℃)							
Leakage Current	I=0.02C or 3000 (μA) Whichever is smaller (After 5 minutes). where, I: max leakage current (μA), C:Nominal capacitance (μF), V:Rated voltage (V) (at 20℃)							
Dissipation Factor (MAX) (tanδ) (at 120Hz, 20℃)	WV	16	25	35	50	63~100	160~450	
	tanδ	0.50	0.40	0.35	0.30	0.25	0.15	
Low Temp.Impedance Stability at 120Hz	WV	16	25	35	50、63	80、100	160~450	
	Z-25℃ /	4	3	3	2	2	4	
	Z-40℃ /	15	10	8	6	5	--	
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20℃ after subjected to DC voltage with the rated ripple current is applied for 2000 hours at 85℃ (GH, at 105℃).							
	Capacitance change		≤ ±20% of the initial value					
	Dissipation Factor		≤ 200% of the initial specified value					
	Leakage Current		≤ the initial specified value					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them at the rated 85℃ (GH,105℃) for 1000 hours without voltage applied to the capacitors for a minimum of 30 minutes, at least 24 hours but not more than 48 hours before the measurements.							
	Capacitance Change		≤ ±20% of the initial value					
	Dissipation Factor		≤ 200% of the initial specified value					
	Leakage Current		≤ the initial specified value					

DRAWING



MULTIPLIER FOR RIPPLE CURRENT(GS)

(1) Frequency Coefficient

Freq.(Hz)	60(50)	120	500	1K	10K
Cap.(μF)					
82~470	0.70	1.00	1.10	1.15	1.20
560~1000	0.75	1.00	1.20	1.25	1.35
1200~4700	0.80	1.00	1.25	1.35	1.40
≥6800	0.85	1.00	1.30	1.40	1.45

(2) Temperature Coefficient

Ambient Temperature(°C)	40	60	70	85
Coefficient	2.40	2.10	1.78	1.00

GS

Series

STANDARD RATINGS

WV(vdc) ΦD Parameter Cap.(μF)	16				25				35				50				63				80				100			
	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
1000	Case Size L(mm) → Ripple Current(Arms) at 120Hz 85°C →																				25				30	20		
1500																	25				30	25			35	(30)	25	
2200													25				30	25			40	(30)	25		50	(40)	(30)	25
3300									25				30	25			35	(30)	25		50	(40)	(30)	25		50	(40)	30
4700					25				30	25			35	(30)	25		45	(35)	(30)	25		50	(40)	30			50	40
6800	25				30	25			35	(30)	25		50	(40)	(30)	25		50	(35)	30			50	40				
10000	30	25			35	(30)	25		45	(35)	(30)	25		50	(35)	30			45	40								
15000	40	(35)	25		45	(35)	(30)	25		50	(35)	30			50	40												
22000		45	(35)	25		45	(35)	30			45	40																
33000			45	35			50	40																				
			4	4			4	4																				

WV(vdc) ΦD Parameter Cap.(μF)	160				180				200				250				350				400				450			
	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
82																				25					30	25		
100																	25				30	25			35	30	25	
120																	30	25			30	25			40	30	25	
150																	30	25			35	30	25		45	35	30	
180																	35	(30)	25		40	35	25		50	40	30	25
220									25				25				40	(35)	(25)		50	40	30	25		45	35	30
270									25				30	25			50	(40)	(30)	25		45	35	30			40	35
330					25				30	25			35	30				45	(35)	30		50	40	30			45	35
390	25				30	25			30	25			35	30	25			50	(40)	30			45	35				40
470	30	25			30	25			35	30	25		40	35	25	25			40	36			40					45
560	35	30			35	(30)	25		40	35	25		50	40	30	25			50	(40)			45					
680	40	(30)	25		40	(35)	25		45	35	30	25		45	35	30				45								
820	45	(35)	30		45	(40)	(30)	25		40	30	25		50	40	30												
1000	50	(40)	(30)		45	(35)	25		50	35	30			45	36													
1200		45	(35)		50	(40)	30			40	36			50	40	40												
1500			40			45	36				40																	
1800			45				40																					
			4				5																					

Case size L in parentheses is not standard. On ordering,please ask us for detailed specifications.

■STANDARD RATINGS

WV(vdc) ΦD Parameter Cap.(μF)	16				25				35				50				63				80				100			
	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
1000	Case Size L(mm) → Ripple Current(Arms) at 120Hz 105°C →																25				30	25			30	25		
1500													25				30	25			35	(30)	25		40	(35)	25	
2200									25				30	25			35	30	25		50	(40)	(30)	25		45	35	
3300					25				30	25			35	30	25		45	40	30			50	(40)	30			45	35
4700	25				30	25			35	(30)	25		45	35	30	25		50	35				50	40				45
6800	35	30			35	(30)	25		50	(40)	(30)	25		50	35	30			45									
10000	45	(35)	25		45	(35)	(30)	25		50	(35)	30			45	40												
15000		45	(35)			45	(35)	30			50	40																
22000			45				40	40																				
33000																												

WV(vdc) ΦD Parameter Cap.(μF)	160				180				200				250			
	22	25	30	35	22	25	30	35	22	25	30	35	22	25	30	35
150																
180																
220									25				30	25		
270					25				25				35	25		
330	25				30	25			30	25			35	30	25	
390	30	25			30	25			35	25			40	35	25	
470	30	25			35	(30)	25		40	30	25		50	40	30	25
560	35	(30)	25		40	(30)	25		45	35	30	25		45	35	25
680	40	(35)	25		45	(35)	30	25	45	40	35	30		50	35	30
820	45	(40)	(30)	25	50	(40)	(30)	25		45	40	30			45	35
1000		45	(35)	25		45	(35)	30		50	45	35				40
1200		50	(35)	30			40	30				45				45
1500			45	35			50	35								
1800				40				40								

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ELCON

Snap-in Terminal Type Aluminum Electrolytic Capacitors

GH

Series

STANDARD RATINGS

WV(vdc) ΦD Parameter Cap.(μF)	350				400				450			
	22	25	30	35	22	25	30	35	22	25	30	35
47	Case Size L(mm) → Ripple Current(Arms) at 120Hz 105°C →								25 0.42			
68					25 0.52				30 0.55	25 0.54	25 0.71	
82	25 0.47				30 0.6	25 0.6			35 0.64	30 0.64	30 0.82	25 0.82
100	30 0.56	25 0.55			30 0.67	25 0.66			40 0.74	35 0.74	35 0.96	30 0.96
120	30 0.61	25 0.6			35 0.78	30 0.77	25 0.78		45 0.85	35 0.8	35 1.06	30 1.06
150	35 0.72	(30) 1.29	25 0.72		40 0.91	35 0.91	30 0.92	25 1.01		45 1	40 1.22	35 1.25
180	40 0.83	(35) 1.43	30 0.84		45 1.04	40 1.04	30 1.01	30 1.18		50 1.14	50 1.48	40 1.43
220	50 1.01	(40) 1.12	(30) 1.09	25 0.93		45 1.21	35 1.18	30 1.31				45 1.64
270		45 1.12	(35) 1.09	30 1.09		50 1.4	40 1.37	35 1.52				
330		50 1.29	(40) 1.2	30 1.2			45 1.57	40 1.73				
390			45 1.43	35 1.38				45 1.97				
470				40 1.58								
560				45 1.79								

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(1) Frequency Coefficient

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Cap(μF)					
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560~1000	0.75	1.00	1.20	1.25	1.35
1200~4700	0.80	1.00	1.25	1.35	1.40
≥6800	0.85	1.00	1.30	1.40	1.45

(2) Temperature Coefficient

Ambient Temperature(℃)	40	60	70	85	105
Coefficient	2.40	2.10	1.78	1.65	1.00