

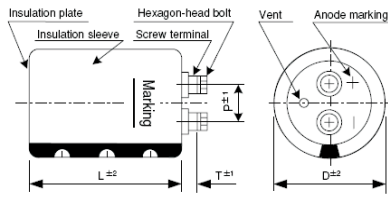
SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

WSG6 Series Useful of 4,000 hours at 85°C (Warranty of 2,000 hours at 85°C)

• Conform RoHS

Features

- The size is reduced by about 14% of the HCGF5A series and the rating 500 V DC is added in the series . A super large case product of ø100 is also added.



(unit:mm)

øD	P	S	T	Cap material
51	22.0	M5×10	4.5	PPS
64	28.6	M5×10	4.5	PPS
77	32.0	M5×10	4.5	PPS
90	32.0	M5×10	4.5	PPS
101	32.0	M6×12	4.5	PPS

Product Specifications

Items	Specifications
Temperature range	-25°C ~ +85°C
Rated voltage	400 ~ 500V.DC
Capacitance tolerance	±20% (20°C, 120Hz)
Leakage current	0.01CV (µA) or 5 mA, whichever is smaller or less(20°C, after 5 minutes) [C = nominal capacitance (µF), V = rated voltage (V)]
Dissipation factor	Less than the value specified in the standard products table. (20°C,120Hz)
Permissible ripple current	As specified in the standard products table. (40°C,120Hz)
High-temperature load	After the rated voltage with specified ripple current is applied at 85°C for 2000 hours: Capacitance tolerance: ±15% or less of the initial value Dissipation factor: 175% or less of the specified initial value Leakage current: Specified initial value or less
Others	JIS C 5101-4.

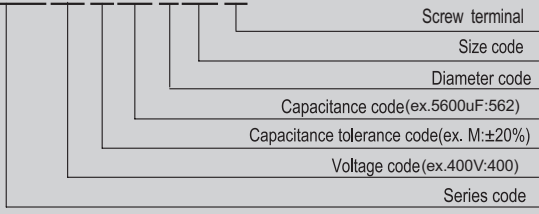
Ripple current correction coefficient

Temperature (°C)	40	60	70	85	
Correction coefficient	1.0	0.75	0.62	0.37	
Frequency (Hz)	50/60	120	300	1K	≥ 10K
Correction coefficient	0.7	1.0	1.1	1.3	1.4

Ripple current should be under 60 Arms at M5(1006) terminal in accordance with form the permissible Current.

Product code: (Example) **WSG6**

WSG6 400 M 562 T 155 W



Bracket

- See page 92 for shapes and dimensions.
- Product names in the Standard Products Table correspond to the bracket for Type Y, but Type I bracket may be used (Type of bracket code = I).
- If bracket are not necessary, enter "N" for the type of bracket code.
- Bracket will be delivered separately

Standard Products Table

Rated Voltage Code (Surge Voltage) (V. DC)	Capacitance (µF)	Case size øDXL(mm)	tanδ		Ripple current 40°C,120Hz (Arms)	ESR(typ.) 20°C,100Hz (mΩ)	Z max 20°C,10kHz (mΩ)	ESL(typ.) (nH)	Part No .
			20°C,120Hz						
400 2G 450	2200	51X115	0.20		16.5	61	63	21	WSG6400M222R115W
	2700	51X130	0.20		19.2	50	52	21	WSG6400M272R130W
		64X96	0.20		18.7	50	52	22	WSG6400M272S96W
	3300	64X96	0.20		20.7	41	42	22	WSG6400M332S96W
	3900	64X115	0.20		24.1	35	37	22	WSG6400M392S115W
	4700	64X130	0.20		27.8	29	32	22	WSG6400M472S130W
	5600	77X115	0.20		30.6	25	28	24	WSG6400M562T115W
	6800	77X130	0.20		35.4	22	25	24	WSG6400M682T130W
	8200	77X155	0.20		41.6	18	21	24	WSG6400M822T155W
	10000	77X195	0.20		50.5	17	20	24	WSG6400M103T195W
		90X131	0.20		45.8	17	19	24	WSG6400M103U131W
	12000	90X157	0.20		53.8	12	15	24	WSG6400M123U157W
	15000	90X196	0.20		65.7	10	13	24	WSG6400M153U196W
	18000	90X236	0.20		77.7	9	12	24	WSG6400M183U236W
		101X175	0.20		69.8	9	12	33	WSG6400M183V175W
22000	101X237	0.20		86.8	8	11	33	WSG6400M223V237W	

Standard Products Table

Rated Voltage Code (Surge Voltage) (V. DC)	Capacitance (μ F)	Case size ϕ DXL(mm)	$\tan\delta$ 20°C, 120Hz	Ripple current 40°C, 120Hz (Arms)	ESR(typ.) 20°C, 100Hz (m Ω)	Z max 20°C, 10kHz (m Ω)	ESL(typ.) (nH)	Part No .
450 2W 500	1800	51X115	0.20	14.9	77	80	21	WSG6450M182R115W
	2200	51X130	0.20	17.3	63	65	21	WSG6450M222R130W
		64X96	0.20	16.9	63	65	22	WSG6450M222S96W
	2700	64X96	0.20	18.7	52	54	22	WSG6450M272S96W
	3300	64X115	0.20	22.2	42	44	22	WSG6450M332S115W
	3900	64X130	0.20	25.3	38	40	22	WSG6450M392S130W
	4700	77X115	0.20	28.1	34	36	24	WSG6450M472T115W
	5600	77X130	0.20	32.1	31	33	24	WSG6450M562T130W
	6800	77X155	0.20	37.9	25	27	24	WSG6450M682T155W
	8200	77X195	0.20	45.8	21	23	24	WSG6450M822T195W
		90X131	0.20	41.5	21	23	24	WSG6450M822U131W
	10000	90X171	0.20	50.6	17	19	24	WSG6450M103U171W
	12000	90X196	0.20	58.7	16	18	24	WSG6450M123U196W
		101X175	0.20	57.0	16	18	33	WSG6450M123V175W
	15000	90X236	0.20	70.9	15	17	24	WSG6450M153U236W
		101X195	0.20	66.5	15	17	33	WSG6450M153V195W
18000	101X237	0.20	78.5	14	16	33	WSG6450M183V237W	
500 2H 550	1200	51X115	0.20	12.2	112	120	21	WSG6500M122R115W
		64X96	0.20	12.5	112	120	22	WSG6500M122S96W
	1500	51X130	0.20	14.3	90	96	21	WSG6500M152R130W
		64X96	0.20	13.9	90	96	22	WSG6500M152S96W
	1800	64X115	0.20	16.4	75	80	22	WSG6500M182S115W
	2200	64X130	0.20	19.0	61	65	22	WSG6500M222S130W
	2700	77X115	0.20	21.3	50	53	24	WSG6500M272T115W
	3300	77X130	0.20	24.6	45	48	24	WSG6500M332T130W
	3900	77X155	0.20	28.7	38	41	24	WSG6500M392T155W
	4700	77X171	0.20	32.9	34	37	24	WSG6500M472T171W
		90X131	0.20	31.4	34	37	24	WSG6500M472U131W
	5600	77X195	0.20	37.8	28	31	24	WSG6500M562T195W
		90X157	0.20	36.7	28	31	24	WSG6500M562U157W
	6800	90X171	0.20	41.8	23	25	24	WSG6500M682U171W
	8200	90X196	0.20	48.5	21	23	24	WSG6500M822U196W
		101X175	0.20	47.1	21	23	33	WSG6500M822V175W
10000	90X236	0.20	57.9	17	19	24	WSG6500M103U236W	
	101X195	0.20	54.3	17	19	33	WSG6500M103V195W	
12000	101X237	0.20	64.1	16	18	33	WSG6500M123V237W	