

SCREW TERMINAL TYPE ALUMINUM ELECTROLYTIC CAPACITORS

HCGF6A Series

(Warranty of 2,000 hours at 85°C)

Features

- The size is reduced by about 14% of the HCGF5 type and the rating 500 V DC is added in the series. A super large case product of ø100 is also added.



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ALUMINUM ELECTROLYTIC CAPACITORS

Product Specifications

Items	Specifications
Temperature range	-25°C ~ +85°C
Capacitance tolerance	±20% (20°C, 120Hz)
Rated voltage	400 ~ 500V.DC
Leakage current	0.01CV (μA) or 5mA, whichever is smaller or less [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 (specified ripple current convolution) 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 60Arms at M5 (100Arms at M6 for G case) in accordance with from the permissible current.

Product symbol : (Example) HCGF6 Series A case 400V 10,000μF±20%

HCGF6 A 2G 103 Y ()

Type of series Case code (*)
Type of bracket code
Capacitance code
Rated voltage code
Terminal code A (screw)

*() case code : If two types of shape exist for the same rating, enter the first English letter of case code.

Attachment of legs

- See page 38 for shapes and dimensions.
- Product names in the Standard Units Rating Table correspond to the attachment legs for Type Y (Type I for ø36 only), but Type I attachment legs may be used (Shape Code = I).
- If attachment legs are not necessary, enter "N" for the attachment leg shape code.
- Attachment legs will be delivered separately.

Standard value and case size

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 40°C, 120Hz	Product name
400V(2G)	2200	51×115	C12R	0.20	16.5	HCGF6A2G222Y
	2700	51×130	C13R	0.20	19.2	HCGF6A2G272YC
		64×96	D10R	0.20	18.7	HCGF6A2G272YD
	3300	64×96	D10R	0.20	20.7	HCGF6A2G332Y
	3900	64×115	D12R	0.20	24.1	HCGF6A2G392Y
	4700	64×130	D13R	0.20	27.8	HCGF6A2G472Y
	5600	77×115	E12R	0.20	30.6	HCGF6A2G562Y
	6800	77×130	E13R	0.20	35.4	HCGF6A2G682Y
	8200	77×155	E16R	0.20	41.6	HCGF6A2G822Y
		77×195	E20R	0.20	50.5	HCGF6A2G103YE
	10000	90×131	F13R	0.20	45.8	HCGF6A2G103YF
	12000	90×157	F16R	0.20	53.8	HCGF6A2G123Y
	15000	90×196	F20R	0.20	65.7	HCGF6A2G153Y
	18000	90×236	F24R	0.20	77.7	HCGF6A2G183YF
		101×175	G18R	0.20	69.8	HCGF6A2G183YG
	22000	101×237	G24R	0.20	86.8	HCGF6A2G223Y

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 40°C, 120Hz	Product name
450V(2W)	1800	51×115	C12R	0.20	14.9	HCGF6A2W182Y
	2200	51×130	C13R	0.20	17.3	HCGF6A2W222YC
		64×96	D10R	0.20	16.9	HCGF6A2W222YD
	2700	64×96	D10R	0.20	18.7	HCGF6A2W272Y
	3300	64×115	D12R	0.20	22.2	HCGF6A2W332Y
	3900	64×130	D13R	0.20	25.3	HCGF6A2W392Y
	4700	77×115	E12R	0.20	28.1	HCGF6A2W472Y
	5600	77×130	E13R	0.20	32.1	HCGF6A2W562Y
	6800	77×155	E16R	0.20	37.9	HCGF6A2W682Y
		77×195	E20R	0.20	45.8	HCGF6A2W822YE
	8200	90×131	F13R	0.20	41.5	HCGF6A2W822YF
	10000	90×171	F17R	0.20	50.6	HCGF6A2W103Y
		90×196	F20R	0.20	58.7	HCGF6A2W123YF
	12000	101×175	G18R	0.20	57.0	HCGF6A2W123YG
		90×236	F24R	0.20	70.9	HCGF6A2W153YF
	15000	101×195	G20R	0.20	66.5	HCGF6A2W153YG
	18000	101×237	G24R	0.20	78.5	HCGF6A2W183Y

Rated Voltage V. DC	Capacitance (μF)	Case size øDXL(mm)	Case code	tanδ 20°C, 120Hz	Ripple current (Arms) 40°C, 120Hz	Product name
500V(2H)	1200	51×115	C12R	0.20	12.2	HCGF6A2H122YC
		64×96	D10R	0.20	12.5	HCGF6A2H122YD
		51×130	C13R	0.20	14.3	HCGF6A2H152YC
	1500	64×96	D10R	0.20	13.9	HCGF6A2H152YD
		64×115	D12R	0.20	16.4	HCGF6A2H182Y
		64×130	D13R	0.20	19.0	HCGF6A2H222Y
	2700	77×115	E12R	0.20	21.3	HCGF6A2H272Y
	3300	77×130	E13R	0.20	24.6	HCGF6A2H332Y
	3900	77×155	E16R	0.20	28.7	HCGF6A2H392Y
	4700	77×171	E17R	0.20	32.9	HCGF6A2H472YE
		90×131	F13R	0.20	31.4	HCGF6A2H472YF
		77×195	E20R	0.20	37.8	HCGF6A2H562YE
	5600	90×157	F16R	0.20	36.7	HCGF6A2H562YF
		90×171	F17R	0.20	41.8	HCGF6A2H682Y
		90×196	F20R	0.20	48.5	HCGF6A2H822YF
	8200	101×175	G18R	0.20	47.1	HCGF6A2H822YG
		90×236	F24R	0.20	57.9	HCGF6A2H103YF
		101×195	G20R	0.20	54.3	HCGF6A2H103YG
	12000	101×237	G24R	0.20	64.1	HCGF6A2H123Y

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