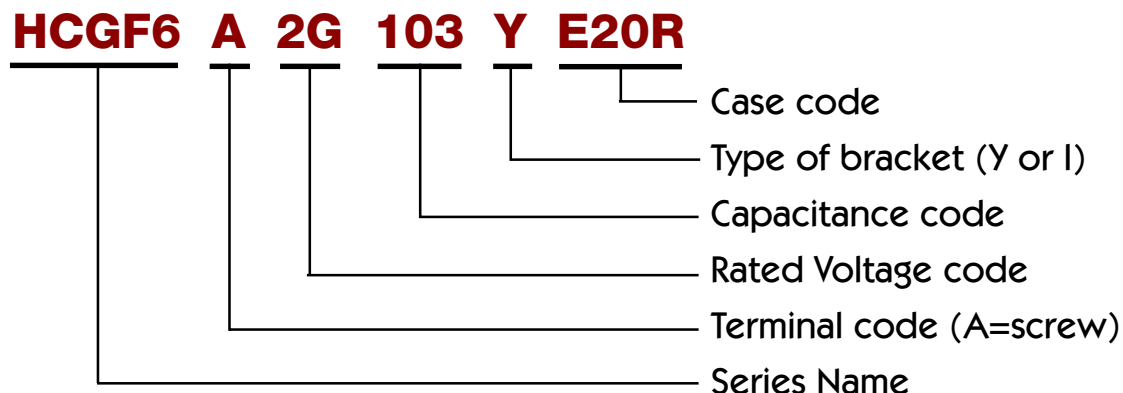


# ALUMINUM ELECTROLYTIC CAPACITORS

## Product Numbering System for HCGF5 and HCGF6 Series

Example: HCGF6 Series, A terminals, 400V, 10,000 $\mu$ F  $\pm$ 20%, Y bracket, 77 x 195mm



**Capacitance Code:** To determine Capacitance code use the first 2 digits of the Capacitance followed by the number of zeros. Using the above example of 10,000: 10 + 3 zeros = 103.

## HCGF5 Series and HCGF6 Series

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	$\geq$ 10K
Correction Coefficient	0.7	1.0	1.1	1.3	1.4

## HCGF5 Series • Life rating to 2000 hours at 85°C • Temperature range -25°C to +85°C

Rated Voltage (WVDC)	Part Number	Capacitance	Case Size $\varnothing$ D x L (mm)	Maximum Ripple Current (A rms) @40° C, 120Hz	Maximum ESR (m $\Omega$ )	Typical ESL (nH)
160 Volts (Code: 2C)	HCGF5A2C332YA12	3,300	36 X 121	14.0	42	22
	HCGF5A2C392YC8R	3,900	51 X 75	14.4	37	22
	HCGF5A2C472YC8R	4,700	51 X 75	15.8	30	23
	HCGF5A2C562YC10R	5,600	51 X 96	19.0	26	23
	HCGF5A2C682YC10R	6,800	51 X 96	21.0	21	25
	HCGF5A2C822YC12R	8,200	51 X 115	24.7	18	32
	HCGF5A2C103YD10R	10,000	64 X 96	28.0	14	32
	HCGF5A2C123YD10R	12,000	64 X 96	30.6	12	32
	HCGF5A2C153YD13R	15,000	64 X 130	38.6	11	32
	HCGF5A2C183YD13R	18,000	64 X 130	42.2	9	32
	HCGF5A2C223YE13R	22,000	77 X 130	49.4	8	34
	HCGF5A2C273YE13R	27,000	77 X 130	54.7	7	34
	HCGF5A2C333YF13R	33,000	90 X 131	64.2	6	35
HCGF5A2C393YF13R	39,000	90 X 157	75.3	5	35	

**HITACHI AIC**

# ALUMINUM ELECTROLYTIC CAPACITORS

**HCGF5 Series** • Life rating to 2000 hours at 85°C • Temperature range -25°C to +85°C

Rated Voltage (WVDC)	Part Number	Capacitance	Case Size ØD x L (mm)	Maximum Ripple Current (A rms) @40° C, 120Hz	Maximum ESR (mΩ)	Typical ESL (nH)
<b>200 Volts (Code: 2D)</b>	HCGF5A2D222YA10	2,200	36 X 100	10.0	57	20
	HCGF5A2D272YA12	2,700	36 X 121	12.7	50	22
	HCGF5A2D332YC8R	3,300	51 X 75	13.3	43	22
	HCGF5A2D392YC8R	3,900	51 X 75	14.4	37	22
	HCGF5A2D472YC10R	4,700	51 X 96	17.4	30	22
	HCGF5A2D562YC12R	5,600	51 X 115	20.4	26	25
	HCGF5A2D682YC13R	6,800	51 X 130	23.7	21	25
	HCGF5A2D822YD10R	8,200	64 X 96	25.4	17	31
	HCGF5A2D103YD10R	10,000	64 X 96	28.0	14	31
	HCGF5A2D123YE10R	12,000	77 X 96	32.6	12	34
	HCGF5A2D153YE10R	15,000	77 X 96	39.0	10	34
	HCGF5A2D183YE13R	18,000	77 X 130	44.6	8	34
	HCGF5A2D223YE16R	22,000	77 X 155	53.0	7	34
	HCGF5A2D273YF13R	27,000	90 X 131	58.2	6	35
	HCGF5A2D333YF16R	33,000	90 X 157	69.0	5	35
<b>250 Volts (Code: 2E)</b>	HCGF5A2E152YA10	1,500	36 X 100	8.7	65	20
	HCGF5A2E182YA10	1,800	36 X 100	9.5	57	20
	HCGF5A2E222YC8R	2,200	51 X 75	10.8	50	22
	HCGF5A2E272YC8R	2,700	51 X 75	12.0	41	22
	HCGF5A2E332YC10R	3,300	51 X 96	14.6	36	22
	HCGF5A2E392YC12R	3,900	51 X 115	17.0	31	25
	HCGF5A2E472YD10R	4,700	64 X 96	19.2	25	32
	HCGF5A2E562YD10R	5,600	64 X 96	21.0	21	32
	HCGF5A2E682YD12R	6,800	64 X 115	24.7	18	32
	HCGF5A2E822YD12R	8,200	64 X 115	27.1	15	32
	HCGF5A2E103YD13R	10,000	64 X 130	31.5	12	32
	HCGF5A2E123YE12R	12,000	77 X 115	34.8	10	34
	HCGF5A2E153YE13R	15,000	77 X 130	40.8	8	34
	HCGF5A2E183YE16R	18,000	77 X 155	47.8	7	35
HCGF5A2E223YF16R	22,000	90 X 157	56.5	6	35	
<b>350 Volts (Code: 2V)</b>	HCGF5A2V391YA5	390	36 X 53	4.5	287	17
	HCGF5A2V471YA8	470	36 X 83	5.8	238	17
	HCGF5A2V561YA8	560	36 X 83	6.4	216	17
	HCGF5A2V681YA8	680	36 X 83	7.0	192	17
	HCGF5A2V821YA10	820	36 X 100	8.3	159	17
	HCGF5A2V102YA10	1,000	36 X 100	9.2	131	20
	HCGF5A2V122YC8R	1,200	51 X 75	10.3	117	20
	HCGF5A2V152YC8R	1,500	51 X 75	11.5	93	20
	HCGF5A2V182YC10R	1,800	51 X 96	13.9	78	20
	HCGF5A2V222YC10R	2,200	51 X 96	15.4	64	20
	HCGF5A2V272YC13R	2,700	51 X 130	19.3	53	25
	HCGF5A2V332YC13R	3,300	51 X 130	21.4	48	25
	HCGF5A2V392YD12R	3,900	64 X 115	24.2	41	25
	HCGF5A2V472YD13R	4,700	64 X 130	27.9	34	25
	HCGF5A2V562YE12R	5,600	77 X 115	30.7	33	30
	HCGF5A2V682YE13R	6,800	77 X 130	35.4	27	30
	HCGF5A2V822YE16R	8,200	77 X 155	41.7	23	30
	HCGF5A2V103YF16R	10,000	90 X 157	49.0	19	35
	HCGF5A2V123YF16R	12,000	90 X 157	54.1	16	40
	HCGF5A2V153YF20R	15,000	90 X 196	66.2	13	45
HCGF5A2V183YF24R	18,000	90 X 236	77.9	10	52	

# ALUMINUM ELECTROLYTIC CAPACITORS

**HCGF5 Series** • Life rating to 2000 hours at 85°C • Temperature range –25°C to +85°C

Rated Voltage (WVDC)	Part Number	Capacitance	Case Size ØD x L (mm)	Maximum Ripple Current (A rms) @40° C, 120Hz	Maximum ESR (mΩ)	Typical ESL (nH)
<b>400 Volts (Code: 2G)</b>	HCGF5A2G331YA5	330	36 X 53	4.1	367	20
	HCGF5A2G391YA8	390	36 X 83	5.3	334	20
	HCGF5A2G471YA8	470	36 X 83	5.8	277	20
	HCGF5A2G561YA8	560	36 X 83	6.4	232	20
	HCGF5A2G681YA10	680	36 X 100	7.6	191	20
	HCGF5A2G821YA10	820	36 X 100	8.3	159	20
	HCGF5A2G102YC8R	1,000	51 X 75	9.4	130	22
	HCGF5A2G122YC8R	1,200	51 X 75	10.3	108	22
	HCGF5A2G152YC10R	1,500	51 X 96	12.7	87	22
	HCGF5A2G182YC10R	1,800	51 X 96	13.9	72	23
	HCGF5A2G222YC13R	2,200	51 X 130	17.4	60	25
	HCGF5A2G272YD10R	2,700	64 X 96	18.8	48	25
	HCGF5A2G332YD12R	3,300	64 X 115	22.2	39	25
	HCGF5A2G392YD13R	3,900	64 X 130	25.4	34	30
	HCGF5A2G472YE12R	4,700	77 X 115	28.2	28	30
	HCGF5A2G562YE13R	5,600	77 X 130	32.2	27	30
	HCGF5A2G682YE16R	6,800	77 X 155	38.0	26	35
	HCGF5A2G822YF16R	8,200	90 X 157	44.4	22	40
	HCGF5A2G103YF16R	10,000	90 X 157	49.4	19	40
	HCGF5A2G123YF20R	12,000	90 X 196	59.1	16	45
HCGF5A2G153YF24R	15,000	90 X 236	71.1	15	50	
<b>450 Volts (Code: 2W)</b>	HCGF5A2W271YA5	270	36 X 53	3.7	482	15
	HCGF5A2W331YA8	330	36 X 53	4.9	395	15
	HCGF5A2W391YA8	390	36 X 83	5.3	334	15
	HCGF5A2W471YA8	470	36 X 83	5.8	277	16
	HCGF5A2W561YA10	560	36 X 83	6.9	232	16
	HCGF5A2W681YA10	680	36 X 100	7.6	191	17
	HCGF5A2W821YC8R	820	36 X 100	8.6	159	17
	HCGF5A2W102YC8R	1,000	51 X 75	9.4	130	20
	HCGF5A2W122YC10R	1,200	51 X 75	11.4	108	20
	HCGF5A2W152YC12R	1,500	51 X 96	13.7	87	20
	HCGF5A2W182YC13R	1,800	51 X 115	15.8	83	22
	HCGF5A2W222YD10R	2,200	51 X 130	17.0	72	22
	HCGF5A2W272YD12R	2,700	64 X 96	20.2	58	25
	HCGF5A2W332YD13R	3,300	64 X 115	23.4	51	25
	HCGF5A2W392YE12R	3,900	64 X 130	25.6	43	30
	HCGF5A2W472YE13R	4,700	77 X 115	29.4	36	30
	HCGF5A2W562YE16R	5,600	77 X 130	34.6	30	35
	HCGF5A2W682YF16R	6,800	90 X 157	40.5	25	40
	HCGF5A2W822YF16R	8,200	90 X 157	44.6	21	45
	HCGF5A2W103YF20R	10,000	90 X 196	53.9	19	50
HCGF5A2W123YF24R	12,000	90 X 236	63.8	16	50	