

ALUMINUM ELECTROLYTIC CAPACITORS

HCGHA Series • Life rating to 2000 hours at 105°C • Temperature range -40°C to +105°C

Rated Voltage (WVDC)	Part Number	Capacitance	Case Size ØD x L (mm)	Maximum Ripple Current (A rms) @105° C, 120Hz	Typical ESR (mΩ) @20° C, 120Hz	Typical ESL (nH)
25 Volts (Code: 1E)	HCGHA1E103IA5	10,000	36 X 53	2.9	20	10
	HCGHA1E153IA8	15,000	36 X 83	4.2	16	10
	HCGHA1E223IA8	22,000	36 X 83	5.1	14	15
	HCGHA1E333IA10	33,000	36 X 100	6.3	12	20
	HCGHA1E473YC8R	47,000	51 X 75	8.0	8	20
	HCGHA1E683YC12R	68,000	51 X 115	10.0	7	22
	HCGHA1E104YD10R	100,000	64 X 96	11.3	6	24
	HCGHA1E154YD12R	150,000	64 X 115	12.9	5	30
	HCGHA1E224YE12R	220,000	77 X 115	14.8	4	45
	HCGHA1E334YF13R	330,000	90 X 131	19.9	4	50
35 Volts (Code: 1V)	HCGHA1V682IA5	6,800	36 X 53	2.6	44	15
	HCGHA1V103IA8	10,000	36 X 83	3.7	30	15
	HCGHA1V153IA8	15,000	36 X 83	4.5	20	15
	HCGHA1V223IA10	22,000	36 X 100	5.5	14	20
	HCGHA1V333YC8R	33,000	51 X 75	6.7	9	20
	HCGHA1V473YC10R	47,000	51 X 96	8.1	8	22
	HCGHA1V683YC12R	68,000	51 X 115	10.0	6	24
	HCGHA1V104YD12R	100,000	64 X 115	12.1	5	30
	HCGHA1V154YE12R	150,000	77 X 115	13.8	4	35
	HCGHA1V224YF13R	220,000	90 X 131	17.6	4	45
50 Volts (Code: 1H)	HCGHA1H332IA5	3,300	36 X 53	2.2	62	15
	HCGHA1H472IA5	4,700	36 X 53	2.3	55	15
	HCGHA1H682IA8	6,800	36 X 83	3.4	38	16
	HCGHA1H103IA8	10,000	36 X 83	4.1	26	16
	HCGHA1H153IA10	15,000	36 X 100	4.9	19	18
	HCGHA1H223YC8R	22,000	51 X 75	5.9	13	20
	HCGHA1H333YC12R	33,000	51 X 115	7.8	9	25
	HCGHA1H473YD10R	47,000	64 X 96	9.5	8	30
	HCGHA1H683YD12R	68,000	64 X 115	11.6	5	35
	HCGHA1H104YE12R	100,000	77 X 115	14.1	4	40
	HCGHA1H154YF13R	150,000	90 X 131	18.9	4	50
63 Volts (Code: 1J)	HCGHA1J222IA5	2,200	36 X 53	2.1	60	11
	HCGHA1J332IA5	3,300	36 X 53	2.2	45	12
	HCGHA1J472IA8	4,700	36 X 83	3.1	32	12
	HCGHA1J682IA8	6,800	36 X 83	3.7	22	13
	HCGHA1J103IA10	10,000	36 X 100	4.4	18	14
	HCGHA1J153YC8R	15,000	51 X 75	5.7	16	15
	HCGHA1J223YC10R	22,000	51 X 96	6.8	9	18
	HCGHA1J333YD10R	33,000	64 X 96	9.2	7	20
	HCGHA1J473YD12R	47,000	64 X 115	10.9	5	30
	HCGHA1J683YE12R	68,000	77 X 115	13.0	4	40
	HCGHA1J104YF13R	100,000	90 X 131	17.2	3	50
80 Volts (Code: 1K)	HCGHA1K222IA5	2,200	36 X 53	2.1	51	11
	HCGHA1K332IA8	3,300	36 X 83	3.0	34	11
	HCGHA1K472IA8	4,700	36 X 83	3.6	24	15
	HCGHA1K682IA10	6,800	36 X 100	4.0	19	15
	HCGHA1K103YC8R	10,000	51 X 75	5.2	13	20
	HCGHA1K153YC10R	15,000	51 X 96	6.2	11	20
	HCGHA1K223YD10R	22,000	64 X 96	8.2	8	25
	HCGHA1K333YE10R	33,000	77 X 96	9.7	6	35
	HCGHA1K473YE12R	47,000	77 X 115	12.5	5	45
	HCGHA1K683YF13R	68,000	90 X 131	16.4	4	50

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HCGHA Series ¥Life rating to 2000 hours at 105°C ¥Temperature range 25°C to +105°C

Rated Voltage (WDC)	Part Number	Capacitance	Case Size - D x L (mm)	Maximum Ripple Current (A rms) @10 5 C, 120Hz	Typical ESR (m 1) @20i C, 120Hz	Typical ESL (nH)
400 Volts (Code: 2G)	HCGHA2G102YC8R	1,000	51 X 75	2.5	93	11
	HCGHA2G152YC12R	1,500	51 X 115	3.6	55	15
	HCGHA2G222YD10R	2,200	64 X 96	4.5	30	20
	HCGHA2G332YD13R	3,300	64 X 130	6.2	14	22
	HCGHA2G392YE12R	3,900	77 X 115	6.8	7	30
	HCGHA2G472YE13R	4,700	77 X 130	7.8	4	50
	HCGHA2G562YE16R	5,600	77 X 155	9.2	123	15
	HCGHA2G822YF16R	8,200	90 X 157	11.8	62	15

Note: Y bracket is standard character in Part Number (Except for 36mm ˘ D). If bracket is required, replace Y with .

Ripple Current Correction Coefficient _____

Temperature (°C)	40	55	70	85	105
Correction Coefficient	4.9	3.9	3.0	1.8	1.0

Frequency (Hz)	50/60	120	300	1K	*10K
Correction Coefficient	0.8	1.0	1.1	1.3	1.4