

ALUMINUM ELECTROLYTIC CAPACITORS

HCG7 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)
6.3 Volts (Code: 0J)	HCG7A0J473YA5	47,000	36 X 53	13.4	47	11
	HCG7A0J683YA6	68,000	36 X 65	14.8	33	15
	HCG7A0J104YA8	100,000	36 X 83	19.7	22	15
	HCG7A0J154YC8	150,000	51 X 83	25.6	15	20
	HCG7A0J224YC10	220,000	51 X 100	33.5	11	25
	HCG7A0J334YD10	330,000	64 X 100	43.6	8	30
	HCG7A0J474YD12	470,000	64 X 121	50.8	7	35
	HCG7A0J684YE12	680,000	77 X 121	54.4	5	40
10 Volts (Code: 1A)	HCG7A1A333YA5	33,000	36 X 53	11.9	25	10
	HCG7A1A473YA6	47,000	36 X 65	15.2	18	15
	HCG7A1A683YA8	68,000	36 X 83	20.3	13	15
	HCG7A1A104YA12	100,000	36 X 121	25.0	11	20
	HCG7A1A154YC8	150,000	51 X 83	27.6	7	25
	HCG7A1A224YC12	220,000	51 X 121	37.6	5	35
	HCG7A1A334YD12	330,000	64 X 121	46.5	5	40
	HCG7A1A474YE12	470,000	77 X 121	52.0	4	50
16 Volts (Code: 1C)	HCG7A1C223YA5	22,000	36 X 53	11.2	25	10
	HCG7A1C333YA6	33,000	36 X 65	14.8	17	15
	HCG7A1C473YA8	47,000	36 X 83	19.6	12	15
	HCG7A1C683YA12	68,000	36 X 121	27.7	11	20
	HCG7A1C104YC8	100,000	51 X 83	29.4	8	25
	HCG7A1C154YC12	150,000	51 X 121	34.0	5	35
	HCG7A1C224YD10	220,000	64 X 100	39.7	4	45
	HCG7A1C334YE12	330,000	77 X 121	49.2	4	50
25 Volts (Code: 1E)	HCG7A1E223YA6	22,000	36 X 65	12.1	22	10
	HCG7A1E333YA8	33,000	38 X 83	14.2	15	15
	HCG7A1E473YA12	47,000	36 X 121	19.8	10	15
	HCG7A1E683YC10	68,000	51 X 100	25.1	7	20
	HCG7A1E104YC12	100,000	51 X 121	28.5	6	25
	HCG7A1E154YD10	150,000	64 X 100	34.7	5	30
	HCG7A1E224YD15	220,000	64 X 144	48.9	4	40
	HCG7A1E334YE15	330,000	77 X 144	52.7	3	50
35 Volts (Code: 1V)	HCG7A1V103YA5	10,000	36 X 53	9.6	20	10
	HCG7A1V153YA6	15,000	36 X 65	10.7	16	10
	HCG7A1V223YA8	22,000	36 X 83	13.4	14	15
	HCG7A1V333YA12	33,000	36 X 121	19.4	12	20
	HCG7A1V473YC8	47,000	51 X 83	22.5	8	20
	HCG7A1V683YC10	68,000	51 X 100	27.6	7	25
	HCG7A1V104YD10	100,000	64 X 100	29.5	6	30
	HCG7A1V154YD15	150,000	64 X 144	41.4	5	45
50 Volts (Code: 1H)	HCG7A1H682YA5	6,800	36 X 53	8.8	44	15
	HCG7A1H103YA6	10,000	36 X 65	11.6	30	15
	HCG7A1H153YA8	15,000	36 X 83	12.7	20	15
	HCG7A1H223YA12	22,000	36 X 121	18.2	14	20
	HCG7A1H333YC8	33,000	51 X 83	20.3	9	20
	HCG7A1H473YC10	47,000	51 X 100	25.9	8	25
	HCG7A1H683YD10	68,000	64 X 100	32.2	6	35
	HCG7A1H104YD15	100,000	64 X 144	36.8	5	45
	HCG7A1H154YE15	150,000	77 X 144	37.8	4	50

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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)
63 Volts (Code: 1J)	HCG7A1J682YA5	6,800	36 X 53	10.2	38	10
	HCG7A1J103YA8	10,000	36 X 83	12.8	26	10
	HCG7A1J153YA10	15,000	36 X 100	15.1	19	15
	HCG7A1J223YC8	22,000	51 X 83	20.9	13	20
	HCG7A1J333YC10	33,000	51 X 100	23.6	9	25
	HCG7A1J473YD10	47,000	64 X 100	32.1	7	35
	HCG7A1J683YD15	68,000	64 X 144	37.2	5	45
	HCG7A1J104YE15	100,000	77 X 144	41.1	4	50
80 Volts (Code: 1K)	HCG7A1K472YA5	4,700	36 X 53	10.4	32	15
	HCG7A1K682YA8	6,800	36 X 83	12.1	22	20
	HCG7A1K103YA10	10,000	36 X 100	16.0	15	20
	HCG7A1K153YC8	15,000	51 X 83	20.7	10	25
	HCG7A1K223YC10	22,000	51 X 100	23.5	9	30
	HCG7A1K333YD10	33,000	64 X 100	28.5	7	40
	HCG7A1K473YD15	47,000	64 X 144	39.0	5	45
	HCG7A1K683YE15	68,000	77 X 144	45.3	4	50
100 Volts (Code: 2A)	HCG7A2A332YA5	3,300	36 X 53	8.7	34	15
	HCG7A2A472YA8	4,700	36 X 83	12.4	24	20
	HCG7A2A682YA10	6,800	36 X 100	13.2	19	20
	HCG7A2A103YC8	10,000	51 X 83	16.9	13	25
	HCG7A2A153YC12	15,000	51 X 121	24.1	11	30
	HCG7A2A223YD10	22,000	64 X 100	25.9	8	35
	HCG7A2A333YD15	33,000	64 X 144	33.0	6	45
	HCG7A2A473YE15	47,000	77 X 144	37.6	5	50
160 Volts (Code: 2C)	HCG7A2C152YA8	1,500	36 X 83	6.9	71	15
	HCG7A2C222YA10	2,200	36 X 100	9.2	54	15
	HCG7A2C332YC8	3,300	51 X 83	12.0	40	20
	HCG7A2C472YC10	4,700	51 X 100	15.3	30	25
	HCG7A2C682YD10	6,800	64 X 100	20.4	21	30
	HCG7A2C103YD12	10,000	64 X 121	26.5	14	40
	HCG7A2C153YE12	15,000	77 X 121	34.4	11	50
200 Volts (Code: 2D)	HCG7A2D102YA6	1,000	36 X 65	5.2	74	10
	HCG7A2D152YA8	1,500	36 X 83	6.9	60	15
	HCG7A2D222YA12	2,200	36 X 121	9.9	51	20
	HCG7A2D332YC8	3,300	51 X 83	12.0	43	25
	HCG7A2D472YC12	4,700	51 X 121	16.6	30	35
	HCG7A2D682YD12	6,800	64 X 121	21.9	21	50
	HCG7A2D103YE12	10,000	77 X 121	28.1	14	55
250 Volts (Code: 2E)	HCG7A1E102YA8	1,000	36 X 83	5.6	84	10
	HCG7A1E152YA12	1,500	36 X 121	8.1	56	15
	HCG7A1E222YC8	2,200	51 X 83	9.9	50	15
	HCG7A1E332YC12	3,300	51 X 121	13.9	36	25
	HCG7A1E472YD10	4,700	64 X 100	16.9	25	35
	HCG7A1E682YD15	6,800	64 X 144	23.5	18	45
	HCG7A1E103YE15	10,000	77 X 144	30.0	12	55

Note: Y bracket is standard as last character in Part Number. If I bracket is required, replace Y with I.

Ripple Current Correction Coefficient

Temperature (°C)	40	55	70	85
Correction Coefficient	1.0	0.81	0.62	0.37

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