



Aluminum Electrolytic Capacitors GA Series

Features

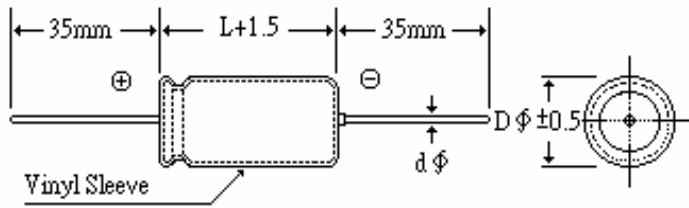
- Life 1000 hours at 85°C
- Standard Axial series for general purpose

Specifications

Items	Performance														
Capacitance Tolerance	±20 % (at 120Hz, 25 °C)														
Rated Voltage Range	6.3 to 100 VDC							160 to 450 VDC							
Capacitance Range	0.1 to 4700 uF							1 to 220 uF							
Operating Temperature Range	-40 to + 85°C							-25 to 85°C							
Leakage Current (at 25°C)	I ≤ 0.02 CV or 3 (uA), whichever is greater.							I ≤ 0.03 CV + 10(uA), whichever is greater							
	After 3 minutes application of working voltage. I= Leakage current (uA), C= Rated capacitance (uF), V= Rated voltage (V)														
Dissipation Factor (Tan δ at 120Hz, 25°C)	Rate Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	Tan δ (max)	0.24	0.20	0.17	0.15	0.12	0.10	0.10	0.10	0.20	0.20	0.20	0.20	0.25	0.25
	For capacitance > 1000uF, add 0.02 per 1000uF increase.														
Low Temperature characteristics (at 120Hz)	Impedance ration max.														
	Rate Voltage	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	-25°C/25°C	4	3	2	2	2	2	2	2	2	2	3	5	15	15
Load Life	After 1000 hours application of W.V. at 85°C . the capacitor shall meet the followin limits.														
	Capacitance change	: ≤ ±25% of initial value													
Dissipation factor	: ≤ 200% of initial specified value														
Leakage Current	: ≤ Initial specified value														
Shelf Life	After storage for 500 hours at 85°C , with no voltage applied and being stabilixed at + 25°C , Capacitor shall meet the limit specified in load life.														
Ripple Current & Frequency Multipliers	Freq.(Hz)														
	Cap.(uF)	60 (50)	120	1K	10K	100K									
	Under 100	0.60	0.90	1.00	1.10	1.10									
	100 to 1000	0.65	0.90	1.00	1.00	1.00									
1000 up above	0.70	0.90	1.00	1.00	1.00										
Ripple Current & Temperature Multipliers	Temperature (°C)	70					85								
	Multiplier	1.10					0.90								
Standards	Satisfied Characteristic W of JIS C														

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D	6.3 - 13	16 - 25
d	0.6	0.8

Dimension : D x L (mm)

Ripple Current mA/rms at 120Hz,85

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC uF	6.3V		10V		16V		25V		35V		50V		63V	
	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
0.47											6.3x13	4	6.3x13	4
1											6.3x13	6	6.3x13	7
2.2											6.3x13	15	6.3x13	17
3.3											6.3x13	25	6.3x13	28
4.7											6.3x13	35	6.3x13	38
10											6.3x13	58	6.3x16	60
22											6.3x13	88	6.3x13	92
33									6.3x13	90	8x16	105	8x16	110
47							6.3x13	100	6.3x13	105	8x16	135	8x16	145
100			6.3x13	135	6.3x16	160	8x16	175	8x16	200	8x16	230	10x21	260
220	8x16	200	8x16	210	8x16	290	8x16	300	10x17	350	10x21	420	13x21	440
330	8x16	290	8x16	330	8x16	340	10x17	380	10x21	450	13x21	490	13x26	550
470	8x16	350	8x16	370	8x16 10x17	410 440	10x21	485	13x21	560	13x26	690	16x28	740
1000	10x21	560	10x21	590	10x21	680	13x21	740	13x26	920	16x33	980	16x37	1200
2200	13x21	890	13x21	910	13x26	980	16x28	1050	16x33	1150	18x37	1300	18x37	1500
3300	13x26	940	13x26	1050	16x28	1200	16x33	1400	18x37	1550	22x42	1750	22x42	2000
4700	16x28	1150	16x28	1250	16x37	1450	18x37	1600	22x42	1900	22x42	2100		

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Dimension : D x L (mm)

Ripple Current mA/rms at 120Hz,85

DIMENSION & PERMISSIBLE RIPPLE CURRENT

VDC uF	100V		160V		200V		250V		350V		400V		450V	
	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA	DxL	mA
1	6.3x13	10	6.3x13	4	6x16	6	6x16	8	6x16	9	8x16	10	8x16	11
2.2	6.3x13	20	8x16	10	8x16	11	8x16	13	10x17	15	10x17	17	10x17	19
3.3	6.3x13	34	8x16	16	10x17	20	10x17	26	10x17	29	10x21	30	10x21	31
4.7	6.3x13	40	8x16	25	10x17	29	10x17	35	10x21	40	13x21	41	13x21	60
10	8x16	50	10x21	55	10x21	60	10x21	68	13x21	70	13x26	72	13x26	95
22	8x20	105	10x26	110	13x21	115	13x26	120	16x26	125	16x33	128	16x33	145
33	8x20	115	13x21	125	13x26	130	16x28	145	16x33	155	16x37	165	16X36	165
47	10x20	190	13x26	190	16x33	200	16x33	220	16x37	230	18x37	235	18x41	245
100	13x21	340	16x37	260	18x37	300	18x37	300	22x42	320				
220	16x28	570	18x37	580	22x42	585								