

Chip Aluminum Electrolytic Capacitors

EAS3 - Low Impedance Aluminum Electrolytic Capacitors

ELECSOUND

Elecsound is a leading manufacturer of aluminum electrolytic capacitors. Mainly include radial type electrolytic capacitors and chip aluminum electrolytic capacitors.

Features:

Low impedance with temperature range -55°C to +105°C and load life of 2000 hours.

Emboss carrier tape packing system is available for automatic insertion.

Available for reflow soldering

Designed for surface mounting on density circuit board.

High stability and reliability

Available for high density surface mounting

Rohs Compliant

Specifications:

Operating Temperature Range(°C): -55~+105

Rated Voltage Range(V): 6.3~50V

Nominal Capacitance Ranger(μF): 1~4700

Capacitance Tolerance(20 °C,120Hz) : 20%

Leakage current Φ4~Φ10: <0.01CV or 3uA whichever is greater(at 25 °C ,after 2 minutes)
(μA): Φ12.5~Φ16: <0.03CV or 4uA whichever is greater(at 25 °C ,after 1 minutes)

Resistance to Soldering Heat

Capacitance Change	Within ±10% of the initial value
Tanδ	Initial specified value or less
Leakage Current	Initial specified value or less

Dissipation Factor(20 °C,120Hz)

Rated Voltage (V)	6.3	10	16	25	35	50
tan δ	Φ4~Φ10	0.22	0.19	0.16	0.14	0.12
	Φ12.5~Φ16	0.26	0.22	0.18	0.16	0.12

Stability at Low Temperature (Measurement frequency: 120Hz)

Rated voltage (V.DC)		6.3	10	16	25	35	50
Impedance ratio ZT/Z20 (max)	Φ4~Φ10	Z(-25°C)/Z(20°C)	2	2	2	2	2
		Z(-40°C)/Z(20°C)	5	4	4	3	3
	Φ12.5~Φ16	Z(-25°C)/Z(20°C)	3	2	2	2	2
		Z(-40°C)/Z(20°C)	10	8	6	4	3

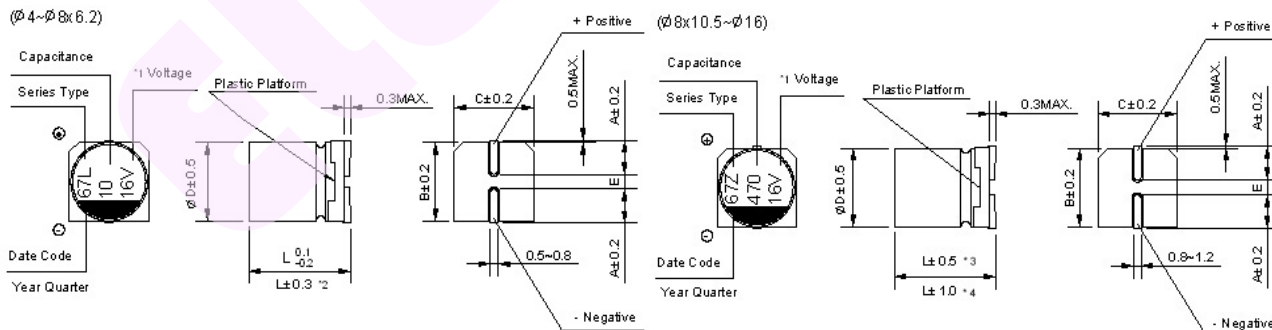
Load Life(+105 °C)

Shelf Life(+105 °C)

Time	2000 hours (1000 hours' for Φ4~Φ6.3x5.4)	Time	2000 hours
Leakage Current	Not more than the specified value.	Leakage Current	Not more than the specified value.
Capacitance Change	Within ±20% of the initial value	Capacitance Change	Within ±15% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.	Dissipation Factor	Not more than 200% of the specified value.

After test:Rated Voltage to be applied for 30 minutes, 24 to 48 hours before measurement.

Dimensions: (Unit:MM)



D×L	4×5.4	5×5.4	6.3×5.4	6.3×7.7	8×6.2	8×10.5	10×10.5	10×13.5	12.5×13.5	12.5×16	16×16.5
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2	3.2	4.7	4.7	5.5
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	12.8	12.8	16.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3	10.3	12.8	12.8	16.3
E ± 0.2	1	1.3	2.2	2.2	2.2	3.1	4.4	4.4	4.4	4.4	6.7
L	5.4	5.4	5.4	7.7	6.2	10.5	10.5	13.5	13.5	16	16.5

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Frequency Correction Factor of Rated Ripple Current

Frequency		50Hz	120Hz	300Hz	1kHz	10kHz~
Capacitance (μF)						
Φ4~Φ10	1~68	0.35	0.50	0.64	0.83	1.00
	100~2200	0.40	0.55	0.70	0.85	1.00
Φ12.5~Φ16	~688	0.45	0.65	0.80	0.90	1.00
	1000~4700	0.65	0.85	0.95	1.00	1.00

Standard size & Maximum permissible ripple current

WV		6.3			10			16		
		0J			1A			1C		
Cap.(μF)		Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
10	100	-	-	-	-	-	-	4×5.4	3.00	60
15	150	-	-	-	-	-	-	5×5.4	1.80	95
		-	-	-	-	-	-	(4×5.4)	(3.00)	(60)
22	220	4×5.4	3.00	60	5×5.4	1.80	95	5×5.4	1.80	95
					(4×5.4)	(3.00)	(60)	(4×5.4)	(3.00)	(60)
33	330	5×5.4	1.80	95	5×5.4	1.80	95	6.3×5.4	1.00	140
		(4×5.4)	(3.00)	(60)	(4×5.4)	(3.00)	(60)	(5×5.4)	(1.80)	(95)
47	470	5×5.4	1.80	95	6.3×5.4	1.00	140	6.3×5.4	1.00	140
		(4×5.4)	(3.00)	(60)	(5×5.4)	(1.80)	(95)	(5×5.4)	(1.80)	(95)
68	680	6.3×5.4	1.00	140	6.3×5.4	1.00	140	6.3×7.7	0.60	230
		(5×5.4)	(1.80)	(95)				(6.3×5.4)	(1.00)	(140)
		-	-	-				(8×6.2)	(0.60)	(230)
100	101	6.3×5.4	1.00	140	6.3×7.7	0.60	230	6.3×7.7	0.60	230
		(5×5.4)	(1.80)	(95)	(6.3×5.4)	(1.00)	(140)	(6.3×5.4)	(1.00)	(140)
		-	-	-	(8×6.2)	-0.60	(230)	(8×6.2)	(0.60)	(230)
150	151	6.3×7.7	0.60	230	6.3×7.7	0.60	230	6.3×7.7	0.60	230
		(6.3×5.4)	(1.00)	(140)	(6.3×5.4)	(1.00)	(140)			
		-	-	-	(8×6.2)	(0.60)	(230)			
220	221	6.3×7.7	0.60	230	6.3×7.7	0.60	230	8×10.5	0.30	450
		(6.3×5.4)	(1.00)	(140)	(8×6.2)	(0.60)	(230)	(6.3×7.7)	(0.60)	(230)
		(8×6.2)	(0.60)	(230)				(8×6.2)	(0.60)	(230)
330	331	6.3×7.7	0.60	230	10×10.5	0.15	670	10×10.5	0.15	670
		(8×6.2)	(0.60)	(230)	(8×10.5)	(0.30)	(450)	(8×10.5)	(0.30)	(450)
470	471	8×10.5	0.30	450	10×10.5	0.15	670	10×10.5	0.15	670
					(8×10.5)	(0.30)	(450)	(8×10.5)	(0.30)	(450)
680	681	8×10.5	0.30	450	10×10.5	0.15	670	10×10.5	0.15	670
1000	102	10×10.5	0.15	670	10×10.5	0.15	670	10×13.5	0.13	750
		(8×10.5)	(0.30)	(450)				(10×10.5)	(0.15)	(670)
1500	152	10×13.5	0.13	750	12.5×13.5	0.11	820	12.5×13.5	0.11	820
		(10×10.5)	(0.15)	(670)	(10×13.5)	(0.13)	(750)			
2200	222	12.5×13.5	0.11	820	12.5×16	0.09	950	16×16.5	0.08	1260
		(10×13.5)	(0.13)	(750)				(12.5×16)	(0.09)	(950)
3300	332	12.5×16	0.09	950	16×16.5	0.08	1260	16×16.5	0.08	1260
		(12.5×13.5)	(0.11)	(820)						
4700	472	16×16.5	0.08	1260	16×16.5	0.08	1260	-	-	-

Maximum Impedance (Ω) at 20°C 100kHz, Ripple Current (mA rms) at 105°C 100kHz

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Standard size & Maximum permissible ripple current

WV		25			35			50		
		1E			1V			1H		
Cap.(μ F)		Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
1	10	-	-	-	4×5.4	3.00	60	4×5.4	5.00	30
1.5	1R5	-	-	-	4×5.4	3.00	60	4×5.4	5.00	30
2.2	2R2	-	-	-	4×5.4	3.00	60	4×5.4	5.00	30
3.3	3R3	-	-	-	4×5.4	3.00	60	4×5.4	5.00	30
4.7	4R7	4×5.4	3.00	60	4×5.4	3.00	60	5×5.4	3.00	50
								(4×5.4)	(5.00)	(30)
6.8	6R8	4×5.4	3.00	60	5×5.4	1.80	95	6.3×5.4	2.00	70
10	100	5×5.4	1.80	95	5×5.4	1.80	95	6.3×5.4	2.00	70
		(4×5.4)	(3.00)	(60)	(4×5.4)	(3.00)	(60)			
15	150	5×5.4	1.80	95	5×5.4	1.80	95	6.3×5.4	2.00	70
22	220	6.3×5.4	1.00	140	6.3×5.4	1.00	140	6.3×7.7	1.00	120
		(5×5.4)	(1.80)	(95)	(5×5.4)	(1.80)	(95)	(6.3×5.4)	(2.00)	(70)
		-	-	-	-	-	-	(8×6.2)	(1.00)	(120)
33	330	6.3×5.4	1.00	140	6.3×5.4	1.00	140	6.3×7.7	1.00	120
		(5×5.4)	(1.80)	(95)	(8×6.2)	(0.60)	(230)	(8×6.2)		
47	470	6.3×7.7	0.60	230	6.3×7.7	0.60	230	8×10.5	0.60	300
		(6.3×5.4)	(1.00)	(140)	(6.3×5.4)	(1.00)	(140)	(6.3×7.7)	(1.00)	(120)
		(8×6.2)	(0.60)	(230)	(8×6.2)	(0.60)	(230)	(8×6.2)	(1.00)	(120)
68	680	6.3×7.7	0.60	230	6.3×7.7	0.60	230	8×10.5	0.60	300
100	101	6.3×7.7	0.60	230	8×10.5	0.30	450	10×10.5	0.30	500
		(8×6.2)	(0.60)	(230)				(8×10.5)	(0.60)	(300)
150	151	8×10.5	0.30	450	8×10.5	0.30	450	10×10.5	0.30	500
		(6.3×7.7)	(0.60)	(230)						
220	221	8×10.5	0.30	450	10×10.5	0.15	670	10×13.5	0.25	580
					(8×10.5)	(0.30)	(450)	(10×10.5)	(0.30)	(500)
330	331	10×10.5	0.15	670	10×10.5	0.15	670	16×16.5	0.12	1060
		(8×10.5)	(0.30)	(450)				(12.5×13.5)	(0.20)	(650)
		-	-	-				(10×13.5)	(0.25)	(580)
470	471	10×10.5	0.15	670	12.5×13.5	0.11	820	16×16.5	0.12	1060
					(10×13.5)	(0.13)	(750)	(12.5×16)	-0.15	(700)
					(10×10.5)	(0.15)	(670)			
680	681	10×13.5	0.13	750	12.5×13.5	0.11	820	16×16.5	0.12	1060
					(10×13.5)	(0.13)	(750)			
1000	102	16×16.5	0.08	1260	16×16.5	0.08	1260	-	-	-
		(12.5×13.5)	(0.11)	(820)	(12.5×16)	(0.09)	(950)	-	-	-
1500	152	12.5×16	0.09	950	16×16.5	0.08	1260	-	-	-
2200	222	16×16.5	0.08	1260	-	-	-	-	-	-

Maximum Impedance (Ω) at 20°C 100kHz, Ripple Current (mA rms) at 105°C 100kHz