

Chip Aluminum Electrolytic Capacitors

EAS8 - Long life extra 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:

Extra low impedance with temperature range -55°C to +105°C and load life of 2000~5000 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): 6.3~100V

Nominal Capacitance Ranger(μF): 3.3~4700

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(25 °C,120Hz)

Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100	
tan δ	Φ4~Φ10	0.26	0.19	0.16	0.14	0.12	0.1	0.08	0.08	0.07
	Φ12.5~Φ16	0.26	0.22	0.18	0.16	0.14	0.1	0.08	0.08	0.07

Stability at Low Temperature (Measurement frequency: 120Hz)

Rated voltage (V.DC)		6.3	10	16	25	35	50	80	100
Impedance ratio ZT/Z20 (max)	Φ4~Φ10	Z(-25°C)/Z(20°C)	2	2	2	2	2	2	2
		Z(-40°C)/Z(20°C)	3	3	3	3	3	3	3
	Φ12.5~Φ16	Z(-25°C)/Z(20°C)	4	4	4	3	3	3	3
		Z(-40°C)/Z(20°C)	10	8	6	4	3	3	3

Load Life(+105 °C)

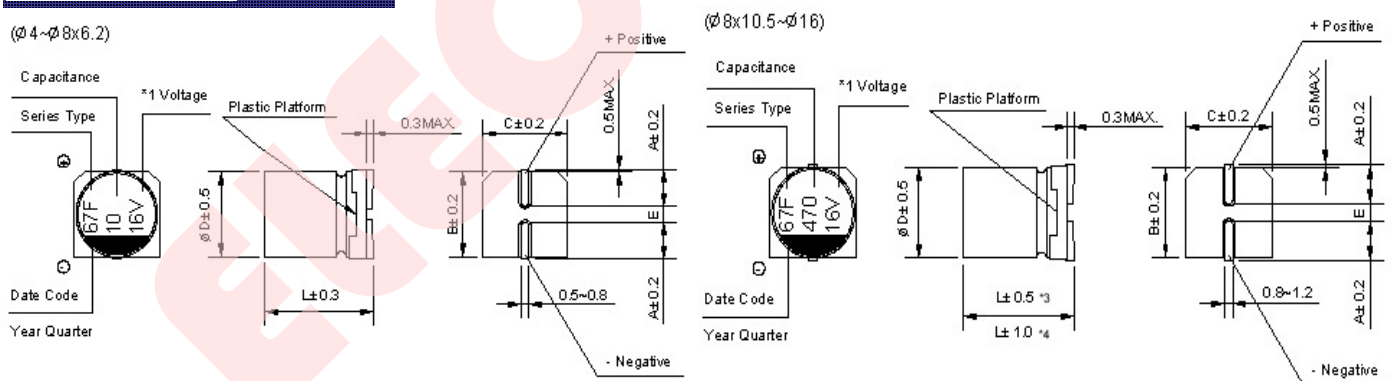
Time	5000 hours (2000 hours for Φ4~Φ10)
Leakage Current	Not more than the specified value.
Capacitance Change	Within ±25% of the initial value
Dissipation Factor	Not more than 200% of the specified value.

Shelf Life(+105 °C)

Time	1000 hours
Leakage Current	Not more than the specified value.
Capacitance Change	Within ±15% of the initial 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)



DxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x6.2	8x10.5	10x10.5	10x13.5	12.5x13.5	12.5x16	16x16.5
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	0.5	0.64	0.83	1
	100~2200	0.4	0.55	0.7	0.85	1
Φ12.5~Φ16	~688	0.45	0.65	0.8	0.9	1
	1000~4700	0.65	0.85	0.95	1	1

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	-	-	-	-	-	-	4×5.8	1.35	90
15	150	-	-	-	-	-	-	4×5.8	1.35	90
22	220	4×5.8	1.35	90	4×5.8	1.35	90	5×5.8	0.7	160
		(4×5.8)	(1.35)	(90)	(4×5.8)	(1.35)	(90)	(4×5.8)	(1.35)	(90)
33	330	5×5.8	0.7	160	5×5.8	0.7	160	6.3×5.8	0.36	240
		(4×5.8)	(-1.35)	(90)	(4×5.8)	(1.35)	(90)	(5×5.8)	(0.7)	(160)
47	470	5×5.8	0.7	160	6.3×5.8	0.36	240	6.3×5.8	0.36	240
		(4×5.8)	(-1.35)	(90)	(5×5.8)	(0.7)	(160)	(5×5.8)	(0.7)	(160)
56	560	5×5.8	0.7	160	6.3×5.8	0.36	240	6.3×5.8	0.36	240
68	680	6.3×5.8	0.36	240	6.3×5.8	0.36	240	6.3×7.7	0.26	300
		(5×5.8)	(0.7)	(160)				(6.3×5.8)	(0.36)	(240)
100	101	6.3×5.8	0.36	240	6.3×7.7	0.26	300	6.3×7.7	0.26	300
		(5×5.8)	(0.7)	(160)	(6.3×5.8)	(0.36)	(240)	(6.3×5.8)	(0.36)	(240)
150	151	6.3×5.8	0.36	240	6.3×7.7	0.26	300	6.3×7.7	0.26	300
		6.3×7.7	0.26	300	6.3×7.7	0.26	300	8×10.5	0.16	600
220	221	(6.3×5.8)	(0.36)	(240)	(8×6.2)	(0.26)	(300)	(6.3×7.7)	(0.26)	(300)
		(8×6.2)	(0.26)	(300)	-	-	-	-	-	-
330	331	6.3×7.7	0.26	300	10×10.5	0.08	850	10×10.5	0.08	850
		(8×6.2)	(0.26)	(300)	(8×10.5)	(0.16)	(600)	(8×10.5)	(0.16)	(600)
470	471	8×10.5	0.16	600	10×10.5	0.08	850	10×10.5	0.08	850
		(8×10.5)	(0.16)	(600)	(8×10.5)	(0.16)	(600)	(8×10.5)	(0.16)	(600)
680	681	10×10.5	0.08	850	10×10.5	0.08	850	10×13.5	0.07	950
		(8×10.5)	(0.16)	(600)				(10×10.5)	(0.08)	(850)
1000	102	10×10.5	0.08	850	10×13.5	0.07	950	16×16.5	0.05	1450
		(8×10.5)	(0.16)	(600)	(10×10.5)	(0.08)	(850)	(12.5×16)	(0.055)	(1200)
1500	152	-	-	-	-	-	-	(12.5×13.5)	(0.06)	(1100)
		10×13.5	0.07	950	12.5×13.5	0.06	1100	16×16.5	0.05	1450
		(10×10.5)	(0.08)	(850)						
2200	222	12.5×13.5	0.06	1100	12.5×16	0.055	1200	-	-	-
3300	332	12.5×16	0.055	1200	16×16.5	0.05	1450	-	-	-
4700	472	16×16.5	0.05	1450	-	-	-	-	-	-

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
4.7	4R7	-	-	-	4x5.8	1.35	90	5x5.8	1.52	85
		-	-	-				(4x5.8)	(2.9)	(60)
10	100	4x5.8	1.35	90	5x5.8	0.7	160	6.3x5.8	0.88	165
					(4x5.8)	(1.35)	(90)	(5x5.8)	(1.52)	(85)
15	150	5x5.8	0.7	160	5x5.8	0.7	160	6.3x5.8	0.88	165
22	220	6.3x5.8 (5x5.8)	0.36 (0.70)	240	6.3x5.8	0.36	240	6.3x7.7	0.68	195
				(160)	(5x5.8)	(0.7)	(160)	(6.3x5.8)	(0.88)	(165)
				-	-	-	-	(8x6.2)	(0.68)	(195)
33	330	6.3x5.8	0.36	240	6.3x5.8	0.36	240	6.3x7.7	0.68	195
		(5x5.8)	(0.7)	(160)	(8x6.2)	(0.26)	(300)	(8x6.2)	(0.68)	(195)
47	470	6.3x7.7	0.26	300	6.3x7.7	0.26	300	6.3x7.7	0.68	195
		(6.3x5.8)	(0.36)	(240)	(6.3x5.8)	(0.36)	(240)	(8x6.2)	(0.68)	(195)
		(8x6.2)	(0.26)	(300)	(8x6.2)	(0.26)	(300)	-	-	-
56	560	6.3x7.7	0.26	300	6.3x7.7	0.26	300	8x10.5	0.34	350
		(6.3x5.8)	(0.36)	(240)						
68	680	6.3x7.7	0.26	300	6.3x7.7	0.26	300	8x10.5	0.34	350
100	101	6.3x7.7	0.26	300	8x10.5	0.16	600	10x10.5	0.18	670
		(8x6.2)	(0.26)	(300)				(8x10.5)	(0.34)	(350)
150	151	8x10.5	0.16	600	10x10.5	0.08	850	10x10.5	0.18	670
		(6.3x7.7)	(0.26)	(300)	(8x10.5)	(0.16)	(600)			
220	221	8x10.5	0.16	600	10x10.5	0.08	850	10x13.5	0.14	780
					(8x10.5)	(0.16)	(600)	(10x10.5)	(0.18)	(670)
330	331	10x10.5	0.08	850	10x10.5	0.08	850	12.5x13.5	0.12	900
		(8x10.5)	(0.16)	(600)						
470	471	10x13.5	0.07	950	12.5x13.5	0.06	1100	16x16.5	0.08	1250
		(10x10.5)	(0.08)	(850)	(10x13.5)	(0.07)	(950)	(12.5x16)	(0.1)	(1050)
680	681	12.5x13.5	0.06	1100	12.5x16	0.055	1200	-	-	-
1000	102	16x16.5	0.05	1450	16x16.5	0.05	1450	-	-	-
		(12.5x16)	(0.055)	(1200)				-	-	-
1500	152	16x16.5	0.05	1450	-	-	-	-	-	-

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		63			80			100		
		1J			1K			2A		
Cap.(μ F)		Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
3.3	3R3	-	-	-	5×5.8	5	25	-	-	-
4.7	4R7	5×5.8	3.0	50	6.3×5.8	3	40	-	-	-
10	100	6.3×7.7	1.2	120	6.3×7.7	2.4	60	8×10.5	1.3	130
		(6.3×5.8)	(1.5)	(80)	(8×6.2)	(2.4)	(60)			
22	220	8×10.5	0.65	250	8×10.5	1.3	130	10×10.5	0.7	200
		(6.3×7.7)	(1.2)	(120)				(8×10.5)	(1.3)	(130)
		(8×6.2)	(1.2)	(120)				-	-	-
33	330	8×10.5	0.65	250	8×10.5	1.3	130	10×10.5	0.7	200
47	470	8×10.5	0.65	250	10×10.5	0.7	200	12.5×13.5	0.32	500
								(10×13.5)	(0.6)	(250)
68	680	12.5×13.5	0.16	800	12.5×13.5	0.32	500	12.5×13.5	0.32	500
		(8×10.5)	(0.65)	(250)						
100	101	12.5×13.5	0.16	800	12.5×13.5	0.32	500	16×16.5	0.17	795
		(10×10.5)	(0.35)	(400)				(12.5×16)	(0.26)	(550)
150	151	12.5×13.5	0.16	800	12.5×13.5	0.32	500	-	-	-
		(10×13.5)	(0.25)	(650)				-	-	-
220	221	12.5×13.5	0.16	800	12.5×16	0.26	550	-	-	-
		(10×13.5)	(0.25)	(650)				-	-	-
330	331	16×16.5	0.082	1400	16×16.5	0.17	795	-	-	-

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

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