Chip Aluminum Electrolytic Capacitors

EAS5 - LongLife ExtraLow 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℃ to +105℃ 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

Specifictions:

Operating Temperature Range(℃): -55~+105
Rated Voltage Range(V): 6.3~100V
Nominal Capacitance Ranger(μF): 3.3~4700
Capacitance Tolerance(20 ℃,120Hz) : 20%
Leakage current (μA): Φ4～Φ10: <0.01CV or 3uA whichever is greater(at 25 ℃ ,after 2 minutes)
Φ12.5～Φ16: <0.03CV or 4uA whichever is greater(at 25 ℃ ,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 ℃,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℃)/Z (20℃)	2	2	2	2	2	2	2	2
		Z(-40℃)/Z(20℃)	3	3	3	3	3	3	3	3
	Φ12.5～Φ16	Z(-25℃)/Z(20℃)	4	4	4	3	3	3	3	3
		Z(-40℃)/Z(20℃)	10	8	6	4	3	3	3	3

Load Life(+105 ℃)

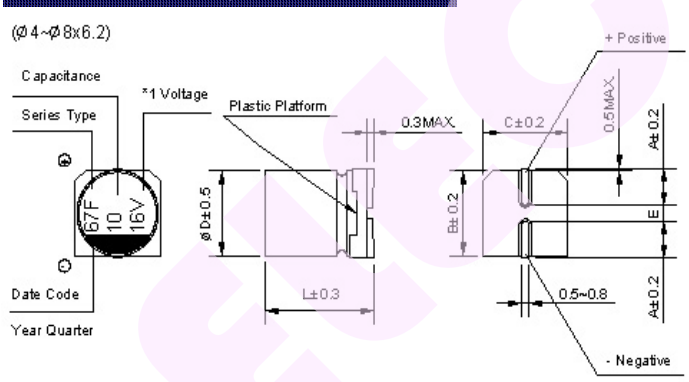
Time	5000 hours (2000 hours for Φ4～Φ6.3x5.4)
Leakage Current	Not more than the specified value.
Capacitance Change	Within ±25% of the initial value
Dissipation Factor	Not more than 200% of the specified value.

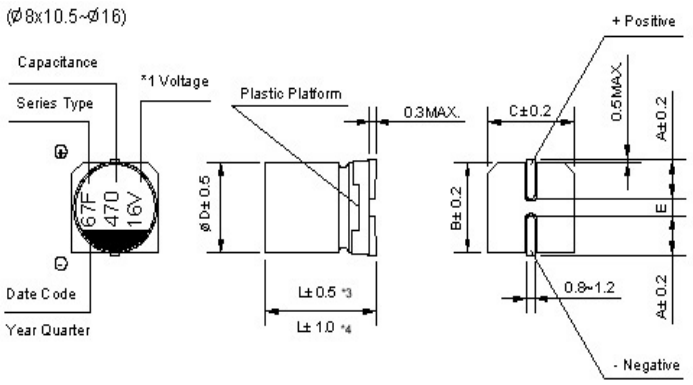
Shelf Life(+105 ℃)

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)





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	1.0	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	16.0	16.5

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Frequency Correction Factor of Rated Ripple Current

Frequency / Capacitance (μF)		50Hz	120Hz	300Hz	1kHz	10kHz~
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	1.350	90
15	150	-	-	-	-	-	-	4×5.8	1.350	90
22	220	4×5.8	1.350	90	4×5.8	1.350	90	5×5.8	0.700	160
								(4x5.8)	(1.35)	(90)
33	330	5×5.8	0.700	160	5×5.8	0.700	160	6.3×5.8	0.360	240
		(4×5.8)	(1.35)	(90)	(4x5.8)	(1.35)	(90)	(5×5.8)	(0.7)	(160)
47	470	5×5.8	0.700	160	6.3×5.8	0.360	240	6.3×5.8	0.360	240
		(4×5.8)	(1.35)	(90)	(5×5.8)	(0.7)	(160)	(5×5.8)	(0.7)	(160)
56	560	5×5.8	0.700	160	6.3×5.8	0.360	240	6.3×5.8	0.360	240
68	680	6.3×5.8	0.360	240	6.3×5.8	0.360	240	6.3x7.7	0.260	300
		(5×5.8)	(0.7)	(160)				(6.3×5.8)	(0.36)	(240)
100	101	6.3×5.8	0.360	240	6.3x7.7	0.260	300	6.3x7.7	0.260	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	0.360	240	6.3×7.7	0.260	300	6.3×7.7	0.260	300
220	221	6.3x7.7	0.260	300	6.3×7.7	0.260	300	8×10.5	0.160	600
		(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	0.260	300	10×10.5	0.080	850	10×10.5	0.080	850
		(8×6.2)	(0.26)	(300)	(8×10.5)	(0.16)	(600)	(8×10.5)	(0.16)	(600)
470	471	8×10.5	0.160	600	10×10.5	0.080	850	10×10.5	0.080	850
					(8×10.5)	(0.16)	(600)	(8x10.5)	(0.16)	(600)
680	681	10×10.5	0.080	850	10×10.5	0.080	850	10×13.5	0.070	950
		(8x10.5)	(0.16)	(600)				(10×10.5)	(0.08)	(850)
1000	102	10×10.5	0.080	850	10×13.5	0.070	950	16×16.5	0.050	1450
		(8x10.5)	(0.16)	(600)	(10×10.5)	(0.08)	(850)	(12.5×16)	(0.055)	(1200)
		-	-	-	-	-	-	(12.5×13.5)	(0.06)	(1100)
1500	152	10×13.5	0.070	950	12.5×13.5	0.060	1100	16×16.5	0.050	1450
		(10×10.5)	(0.08)	(850)						
2200	222	12.5×13.5	0.060	1100	12.5×16	0.055	1200	-	-	-
3300	332	12.5×16	0.055	1200	16×16.5	0.050	1450	-	-	-
4700	472	16×16.5	0.050	1450	-	-	-	-	-	-

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

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Standard size & Maximum permissible ripple current

WV		25			35			50		
		1E			1V			1H		
Cap.(μF)		Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current	Case Size	Impedance	Ripple Current
4.7	4R7	-	-	-	4×5.8	1.350	90	5×5.8	1.52	85
		-	-	-				(4x5.8)	(2.9)	(60)
10	100	4×5.8	1.350	90	5×5.8	0.700	160	6.3×5.8	0.88	165
					(4x5.8)	(1.35)	(90)	(5×5.8)	(1.52)	(85)
15	150	5×5.8	0.700	160	5×5.8	0.700	160	6.3×5.8	0.88	165
22	220	6.3×5.8 (5x5.8)	0.36 (0.70)	240	6.3×5.8	0.360	240	6.3×7.7	0.68	195
				(160)	(5x5.8)	(0.7)	(160)	(6.3x5.8)	(0.88)	(165)
				-	-	-	-	(8x6.2)	(0.68)	(195)
33	330	6.3×5.8	0.360	240	6.3×5.8	0.360	240	6.3×7.7	0.68	195
		(5x5.8)	(0.7)	(160)	(8x6.2)	(0.26)	(300)	(8x6.2)	(0.68)	(195)
47	470	6.3×7.7	0.260	300	6.3×7.7	0.260	300	6.3×7.7	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	6.3×7.7	0.260	300	6.3×7.7	0.260	300	8×10.5	0.34	350
		(6.3x5.8)	(0.36)	(240)						
68	680	6.3×7.7	0.260	300	6.3x7.7	0.260	300	8×10.5	0.34	350
100	101	6.3×7.7	0.260	300	8×10.5	0.160	600	10×10.5	0.18	670
		(8x6.2)	(0.26)	(300)				(8×10.5)	(0.34)	(350)
150	151	8x10.5	0.160	600	10×10.5	0.080	850	10×10.5	0.18	670
		(6.3×7.7)	(0.26)	(300)	(8x10.5)	(0.16)	(600)			
220	221	8×10.5	0.160	600	10×10.5	0.080	850	10×13.5	0.14	780
					(8x10.5)	(0.16)	(600)	(10×10.5)	(0.18)	(670)
330	331	10×10.5	0.080	850	10×10.5	0.080	850	12.5×13.5	0.12	900
		(8x10.5)	(0.16)	(600)						
470	471	10×13.5	0.070	950	12.5×13.5	0.060	1100	16×16.5	0.08	1250
		(10×10.5)	(0.08)	(850)	(10×13.5)	(0.07)	(950)	(12.5×16)	(0.1)	(1050)
680	681	12.5×13.5	0.060	1100	12.5×16	0.055	1200	-	-	-
1000	102	16×16.5	0.050	1450	16×16.5	0.050	1450	-	-	-
		(12.5×16)	(0.055)	(1200)				-	-	-
1500	152	16×16.5	0.050	1450	-	-	-	-	-	-

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

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Standard size & Maximum permissible ripple current

WV		63			80			100		
		1J			1K			2A		
Cap.(μF)		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
		(6.3x5.8)	(1.5)	(80)	(8x6.2)	(2.4)	(60)			
22	220	8x10.5	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)
		(8x6.2)	(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
								(10x13.5)	(0.6)	(250)
68	680	12.5×13.5	0.16	800	12.5x13.5	0.32	500	12.5×13.5	0.32	500
		(8x10.5)	(0.65)	(250)						
100	101	12.5×13.5	0.16	800	12.5x13.5	0.32	500	16×16.5	0.17	795
		(10x10.5)	(0.35)	(400)				(12.5×16)	(0.26)	(550)
150	151	12.5×13.5	0.16	800	12.5x13.5	0.32	500	-	-	-
		(10x13.5)	(0.25)	(650)				-	-	-
220	221	12.5×13.5	0.16	800	12.5x16	0.26	550	-	-	-
		(10x13.5)	(0.25)	(650)				-	-	-
330	331	16×16.5	0.082	1400	16×16.5	0.17	795	-	-	-

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

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