

Chip Aluminum Electrolytic Capacitors

EAS5 - Bi-Polar 105°C Aluminum Electrolytic Capacitors

ELECSOUND®

Features:

- Bi-polar with general temperature 105°C.
- Emboss carrier tape packing system is available for automatic insertion.
- Available for reflow soldering
- Available for high density surface mounting

- Designed for surface mounting on density circuit board.
- Load life of 2000 hours at 105 °C
- Rohs Compliant

Specifications:

- Operating Temperature Range(°C): -55~+105
- Rated Voltage Range(V): 6.3~50V
- Nominal Capacitance Ranges(μF): 0.1~47
- Capacitance Tolerance(20 °C,120Hz) : 20%
- Leakage current (μ After 2 minutes' application of rated voltage, leakage current is not more than 0.002CV or 0.5(μA), whichever is greater.

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.DC)	6.3	10	16	25	35	50
Tanδ (max)	0.24	0.2	0.17	0.17	0.15	0.15

Measurement frequency: 120Hz, Temperature: 20°C

Stability at Low Temperature (Measurement frequency: 120Hz)

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

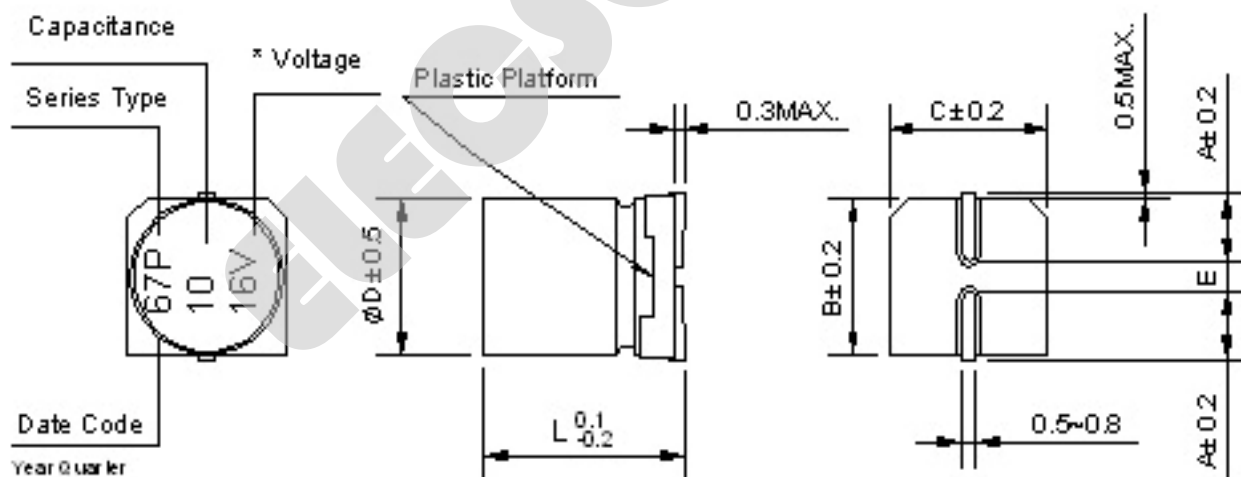
Load Life(+105 °C)

Time	1000 hours
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 ±10% of the initial value.
Dissipation Factor	Not more than 200% of the specified value.

Dimensions : (Unit:MM)



D×L	4×5.4	5×5.4	6.3×5.4
A	1.8	2.1	2.4
B	4.3	5.3	6.6
C	4.3	5.3	6.6
E ± 0.2	1	1.3	2.2
L	5.4	5.4	5.4

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Frequency Correction Factor of Rated Ripple Current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
Coefficient	0.7	1	1.17	1.36	1.5

Standard size & Maximum permissible ripple current

WV		6.3		10		16		25		35		50	
		0J		1A		1C		1E		1V		1H	
Cap. (μF)		Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1	0R1	-	-	-	-	-	-	-	-	-	-	4×5.4	1
0.22	R22	-	-	-	-	-	-	-	-	-	-	4×5.4	2
0.33	R33	-	-	-	-	-	-	-	-	-	-	4×5.4	2.8
0.47	R47	-	-	-	-	-	-	-	-	-	-	4×5.4	4
1	10	-	-	-	-	-	-	-	-	-	-	4×5.4	8.4
2.2	2R2	-	-	-	-	-	-	-	-	4×5.4	8.4	5×5.4	13
3.3	3R3	-	-	-	-	-	-	5×5.4	12	5×5.4	16	5×5.4	17
4.7	4R7	-	-	-	-	4×5.4	12	5×5.4	16	5×5.4	18	6.3×5.4	20
10	100	-	-	4×5.4	17	5×5.4	23	6.3×5.4	27	6.3×5.4	29	-	-
22	220	5×5.4	28	6.3×5.4	33	6.3×5.4	37	-	-	-	-	-	-
33	330	6.3×5.4	37	6.3×5.4	41	6.3×5.4	49	-	-	-	-	-	-
47	470	6.3×5.4	45	-	-	-	-	-	-	-	-	-	-

Ripple Current (mA rms) at 105°C 120Hz