CHANGYU

Miniature Aluminum Electrolytic Capacitors

Series

CLL

FEATURESS

1、5mmL.Low leakage current, accurate and reliability, suit for use in high stable circuits.

SPECIFICATIONS

Item	Performance Characteristics
Operating Temperature Range	-40 to +105℃
Rated Working voltage Range	4 to 50V
Nominal Capacitance Range	0.1 to 100(uF)
Capacitance Tolerance	±20%（120Hz，+20℃）
Leakage Current	I≤0.002CV or0.4(uA) Whichever is greater measured after 2minutes application of rated working voltage at +20℃
Dissipation Factor tan δ (120Hz+20℃)	Working voltage(V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 tan δ (max.): 0.35 / 0.24 / 0.20 / 0.16 / 0.14 / 0.12 / 0.10
Low Temperature Characteristics	Impedance ratio max. at 120Hz Working voltage(V): 4 / 6.3 / 10 / 16 / 25 / 35 / 50 Z-25℃/Z+20℃: 7 / 4 / 3 / 2 / 2 / 2 / 2 Z-40℃/Z+20℃: 15 / 10 / 8 / 6 / 4 / 3 / 3
Multiplier for Ripple Current vs. Frequency	CAP(uF)\Hz: 50(60) / 120 / 400 / 10K / 50K-100K Multiplier: 0.70 / 1.0 / 1.17 / 1.30 / 1.50
Multiplier for Ripple Current vs. Temperature	Temperature℃: 45 / 60 / 70 / 85 / 105 Multiplier: 2.10 / 1.90 / 1.65 / 1.4 / 1.00
High temperature Loading	Test conditions Duration :2000 hours Ambient temperature :+105℃ Applied voltage :Rated DC working voltage to polarity every 250 hours Post test requirements at +20℃ Leakage current : ≤ Initial specified value Capacitance change : ≤±20% of initial measured value(4V:< ±30%) tan δ : ≤200% of initial specified value
Shelf life	Test conditions Duration :1000 hours Ambient temperature :+105℃ Applied voltage : (None) Post test requirements at+20℃ Leakge current :≤Initial specified value Capacitance change :≤±20% of initial measured value(4V:<±30%) Tan δ :≤±200% of initial specified value
Others	JIS C-5141 JIS C-5102

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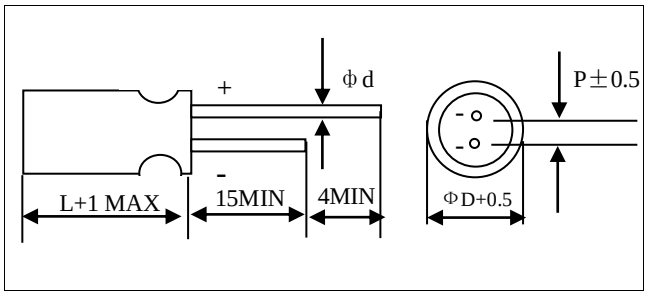
CASE SIZE TABLE

Unit:mm



DΦ	4	5	6.3
P	1.5	2.0	2.5
dΦ（±0.05）	0.45		

DIMENSIONS

ΦD×L(mm)

WV(SV) / Cap.(uF)	Code	4V(5)		6.3V(8)		10V(13)		16V(20)		25V(32)	
		0G		0J		1A		1C		1E	
4.7	475									4×5	20
10	106							4×5	25	5×5	31
22	226			4×5	32	5×5	36	5×5	42	6.3×5	46
33	336	5×5	32	5×5	41	5×5	47	6.3×5	53	6.3×5	58
47	476	5×5	36	5×5	49	6.3×5	55	6.3×5	63		
100	107	6.3×5	62	6.3×5	76					Case size	Allowable ripple

Allowable Ripple (mA rms)at 105℃

120Hz

ΦD×L(mm)

WV(SV) / Cap.(uF)	Code	35V(44)		50V(63)	
		1V		1H	
0.1	104			4×5	1
0.22	224			4×5	2.1
0.33	334			4×5	2.7
0.47	474			4×5	4.1
1	105			4×5	8
2.2	225			4×5	16
3.3	335			4×5	21
4.7	475	4×5	22	4×5	26
10	106	5×5	34	6.3×5	35
22	226	6.3×5	51	Case size	Allowable ripple

Allowable Ripple (mA rms)at 105℃120Hz