ACJL Series

- Feature: Surface mounting, Reduced height, Wide temperature range
- Suitable for DC-DC converters, voltage regulators and decoupling applications
- Rate voltage: 2-2.5Vdc.
- Endurance: 3000hrs at 125℃
- RoHS Compliant

Specifications

Item	Conditions	Characteristics	
Category Temperature Range		-55 to +125 ℃	
Rated Voltage Range		2-2.5 Vdc	
Capacitance Tolerance	at 20℃, 120Hz	±20 % (M)；Y：+10 ~ -35%	
Leakage Current	at 20℃ after 2 minutes	I ≦ 0.1CV I：Leakage Current(μA), C：Rated Capacitance(μF), V：Rated Voltage(V)	
Surge Voltage	15℃ to 35℃	Rated voltage × 1.25 (2 V.DC to 2.5 V.DC)	
Dissipation Factor (tanδ)	at 20℃，120Hz	≦ 0.1	
Endurance	125℃, rated voltage applied, 3000 hrs	Appearance	No significant damage
		Capacitance Change	≤±20% of the initial value
		Dissipation Factor	≤ 200% of the initial specified value
		ESR(mΩ)	≦200% of the initial specified value
		Leakage Current	≤ 300% of the initial specified value
Damp Heat, Steady State	85℃, 85%RH, 1000 hrs	Appearance	No significant damage
		Capacitance Change	(2 V.DC to 2.5 V.DC) +70%, -20% of the initial value
		Dissipation Factor	≤ 200% of the initial specified value
		ESR(mΩ)	≤ 200% of the initial specified value
		Leakage Current	≤ 500% of the initial specified value
Surge Voltage	The capacitors shall be subjected to 1000 cycles each consisting of charge with the surge voltages,125% rated voltage, at 15-35~C for 30 seconds through a protective resistor(R=1KQ)and discharge for5min 30 seconds	Appearance	No significant damage
		Capacitance Change	≤ ±10% of the initial value
		Dissipation Factor	within the initial specified value
		Leakage Current	within the initial specified value

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Standard Ratings

WV(VDC)		Cap(μF)@120Hz	tanδ Max. @120Hz	Leakage Current Max. (μA)	ESR Max. (mΩ) @100kHz	Ripple Current (A r.m.s) @100kHz	Part No.
105℃	125℃						
2	1.6	330	0.1	66	9	6.3	*ACJL2R0S331E09
		470	0.1	94	6	7.5	*ACJL2R0S471E06
		470	0.1	94	9	6.3	*ACJL2R0S471E09
2.5	2	330	0.1	82.5	9	6.3	*ACJL2R5S331E09
		470	0.1	117.5	3	10.2	*ACJL2R5S471E03

*2025 Q4 engineering

Temperature Compensation Multipliers for Ripple Current				
Temperature	≦ 45℃	45℃ ＜T≦ 85℃	85℃＜T≦ 105℃	125℃＜T
2 V.DC – 2.5 V.DC	1.0	0.7	0.25	0.25

PRODUCT IDENTIFICATION

ACJL	2R0	S	331	E09
Product	Rated Voltage 2R0: 2.0V	Case Height S:1.9mm	Capacitance 331=330μF	ESR E09： 9mΩ

DIMENSIONS AND MARKING

Case size	L	WA	WB	H	P
S	7.3±0.3	4.3±0.3	2.4±0.2	1.9±0.3	1.3±0.2