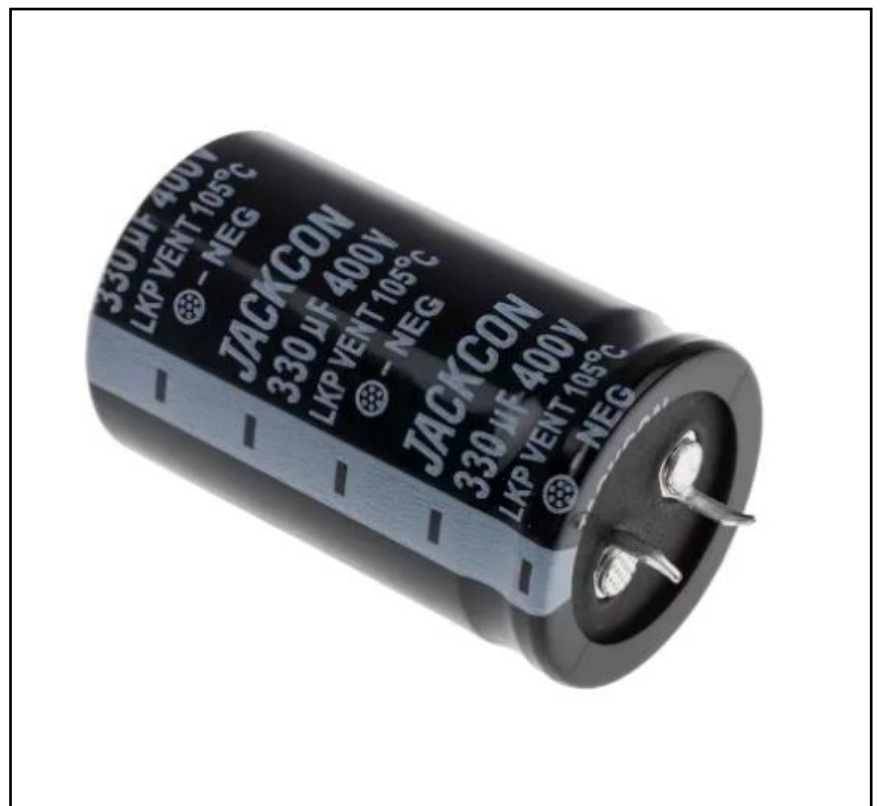


## Features

- Used in communication equipment's, switching power supply, etc.
- Safety vent construction design

## RS PRO Aluminium Electrolytic Capacitor, LHK

RS Stock No.: 173-0291, 706-3332



RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

The RS PRO highly reliable and consistent general purpose Aluminium capacitors are designed with an explosive-proof safety vent. The electrolytic capacitors are suitable for use in a wide range of devices including communication equipment and particularly switching power supplies.

## General Specifications

Polarised	Polar
Design	Safety vent construction design
Application	Used in communication equipment's, switching power supply, etc.
Load Life	<p>Test Conditions:</p> <p>Duration time: 1000Hrs</p> <p>Ambient temperature: +105°C</p> <p>Applied voltage: Rated DC working voltage</p> <p>After test requirements : &lt; 30% of the initial measured value</p> <p>Dissipation Factor: &lt; 200% of the initial specified value</p> <p>Leakage Current: &lt; the initial specified value</p>
Shelf Life	<p>Test Conditions:</p> <p>Duration time: 1000Hrs</p> <p>Ambient temperature: +105°C</p> <p>Applied voltage: None</p> <p>After test requirements at +20°C: Same limits as load life</p> <p>Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes</p>

## Electrical Specifications

Rated Voltage Range	<p>6.3 to 100 VDC</p> <p>160 to 450 VDC</p>
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## Mechanical Specifications

Height	50mm
Length	50mm
Diameter	30mm

## Operation Environment Specifications

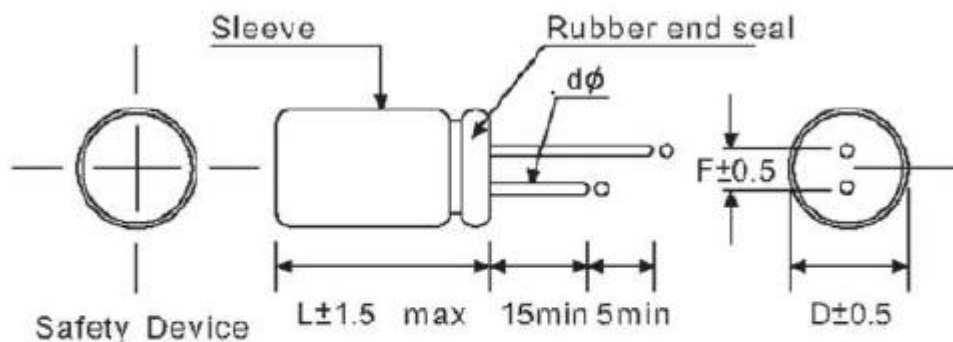
Operating Temperature Range	-40 to +105°C -25 to +105°C
Capacitance Range	0.1 to 15000 µF 0.47 to 470 µF
Capacitance Tolerance	+ 20% (120Hz, +20°C)
Leakage Current (+20°C max.)	I < 0.01 CV or 3 (µA) After 1 minute whichever is greater measured with rated working voltage applied  I < 0.03 CV or 3(µA) After 1 minute with rated working voltage applied

Dissipation Factor	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	D.F. (%) max.	23	20	16	14	12	10	10	10	15	15	16	20	20	20
For capacitance > 1000µ F, add 2% per another 1000µ (+20°C at 120Hz)															
Low Temperature Characteristics (at 120Hz)	Impedance ratio max.														
	Working Voltage (VDC)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
	Z (-25°C) Z (+20°C)	4	3	2	2	2	2	2	2	3	3	3	5	6	15
	Z (-40°C) Z (+20°C)	8	6	4	4	3	3	3	3	-	-	-	-	-	-

## Similar Products

Article Numbers	Units per order
173-0291	Comes in 100 Units
706-3332	Comes in 1 Units

### Diagram of Dimensions:



Dφ	5	6.3	8	10	13	16	18	22	25
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	12
dφ	0.5		0.6		0.8		1.0		

### Ripple Current & Temperature

Temperature (°C)	45	60	70	85	105
Multiplier	2.10	1.90	1.65	1.40	1.00

### Ripple Current & Frequency Multiplier

CAP(μF)/Hz		50(60)	120	400	1K	10K	50-100K
Multiplier	CAP≤10	0.8	1.0	1.30	1.45	1.65	1.70
	10<CAP≤100	0.8	1.0	1.23	1.36	1.48	1.53
	100<CAP≤1000	0.8	1.0	1.16	1.25	1.35	1.38
	1000<CAP	0.8	1.0	1.11	1.18	1.25	1.28