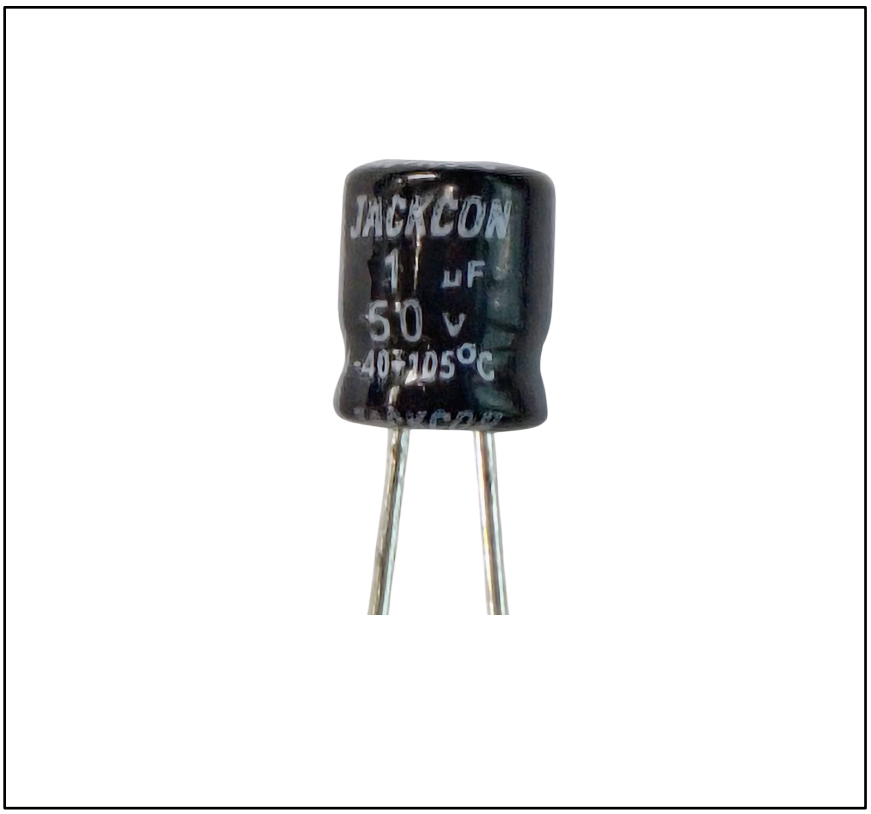
Features

- 105℃ series for General Purpose
- 105℃ 1000hours assured
- RoHs compliance

RS PRO
ALUMINUM ELECTROLYTIC CAPACITORS

RS Stock No : 7060440



RS 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

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

General Specifications

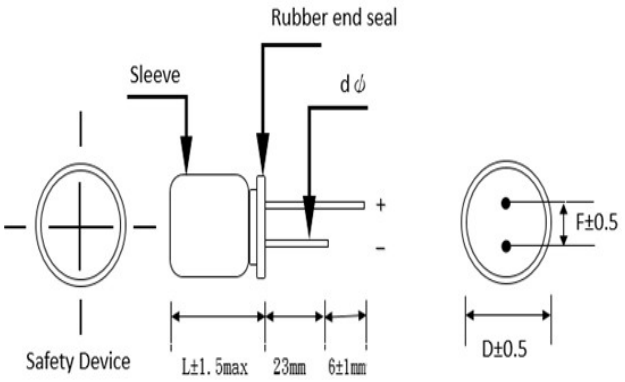
Spec. & RIPPLE CURRENT:

uF	WV	SIZE(DxL)	Maximum Ripple Current
1	50	4X5	8mA,rms,120Hz at 105℃

Multiplier for Ripple Current VS, Frequency

CAP(uF)Hz		50(60)	120	1K	10K
Multiplier	0.1~47	0.8	1	1.30	1.50
	56UP	0.8	1	1.15	1.20

Unit:mm



Dimensions

¢ D	4	5	6.3	8
F	1.5±0.5	2.0±0.5	2.5±0.5	3.5±0.5
¢ d	0.45	0.45	0.45	0.45

Mechanical Specifications

item	Performance Characteristics						
Operating Temperature Range(℃)	-40+105℃						
Capacitance Tolerance (%)	±20%						
Rated Voltage Range(v)	4	6.3	10	16	25	35	50
Dissipation Factor(tan δ %)max.	35	28	24	20	16	14	12
Leakage Current (LC.) (μA /after 2 min.)max.	I≦0.01 CV or 3(uA) After 2 minute whichever is greater measured With rated working voltage applied						
Life Test： Load Life Test： After 1000 Hrs at 105℃ Shelf Life Test： After 1000 Hrs at 105℃	ΔC/C	Within ±30% of the initial value					
	Tan δ	≦200% of the initial specified value					
	LC.	≦The initial specified value					
Detail specifications	Conform to IEC 60384-4						

Electrical Specifications

CONTENTS OF QUALITY ASSURANCE

SCOPE ASSURANCE METHOD CONTENTS

Performance

Unless otherwise specified, the capacitors shall be measured at +15℃ to +35℃ , 45to75%RH. However, if any Doubt arises on the judgment, the measurement conditions shall be +20±1℃, 60to70%RH the test Conditions shall comply with IEC-60384-4.

1. Capacitance(CAP.)

Measuring frequency :120Hz±20%

Measuring voltage :0.5V rms. +1.5 to 2.0V dc

Measuring circuit :Series equivalent circuit.

Criteria: Shall be within the specified capacitance tolerance.

2.Dissipation Factor (tanδ)

Measuring frequency :120Hz±20%

Measuring voltage :0.5V rms. +1.5 to 2.0V dc

Measuring circuit :Series equivalent circuit.

Criteria: Shall not exceed the specified in the table of Ratings.

3. Leakage Current (L.C.)

DC leakage current shall be measure with rate voltage, which is applied through a resistor of 1,000±10Ω connected in series with the capacitors , at the end of a specified period after the capacitors reached the rated voltage across the terminals.

Criteria: Shall not exceed the specified in the table of Ratings.

4. Surge Voltage

4.1 The surge DC rating is the maximum voltage to which the capacitor should be subjected under any conditions. This includes transients and peak ripple at the highest line voltage.

4.2 Capacitors, connected in series with 1000 ohm resistors, shall withstand the surge test voltage applied at the rated of 1/2 minute on, 4 1/2 minutes off, for 1000 successive test cycles at 20°C (see the following table)

PERFORMANCE CHARACTERISTICS(continued)

Rated Voltage (WV)	6.3	10	16	25	35	50	63	100	160	200	250	350	400	450
Surge Voltage (SV)	10	13	20	32	44	63	79	125	200	250	300	400	450	500

Criteria:	Capacitance change	:≦±15% of initial value
	Dissipation Factor	:within specified value
	Leakage Current	:within specified value
	Physical	:no broken and undamaged

Protection Category

- **Condition of Use** The capacitors shall NOT be exposed to: (a) Fluids including water, saltwater spray, oil, fumes, highly humid or condensed climates, etc. (b) Ambient conditions containing hazardous gases/fumes like hydrogen sulfide, sulfurous acid, nitrous acid, chlorine or bromine gas, ammonia, etc. (c) Exposed to ozone, ultraviolet rays and radiation. (d) Severe vibrations or physical shocks that exceeds the specifications mentioned in this catalogue.
- **Storage** (1) The most suitable conditions for aluminium capacitor storage are 5℃ ~ 35℃ and indoor relative humidity less than 75%. High temperature and/or humidity storage is detrimental to the capacitors. (2) Capacitors shall not be stored in wet or damp atmospheres containing water, brine, fumes or oil. (3) Capacitors storage area shall neither be exposed to hazardous gases such as hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, ammonium, etc. nor to acidic or alkaline solutions. (4) Capacitors shall not be exposed to ozone, ultraviolet rays or radiation.

Classification

UNSPSC (Version)	32121505

Approvals

Standards Met	RoHs, REACH

Connection Diagrams / Assembly Diagrams / Illustrations / Accessories