

Datasheet

Aluminium Electrolytic Capacitor, LHK

RS Stock number 706-3421



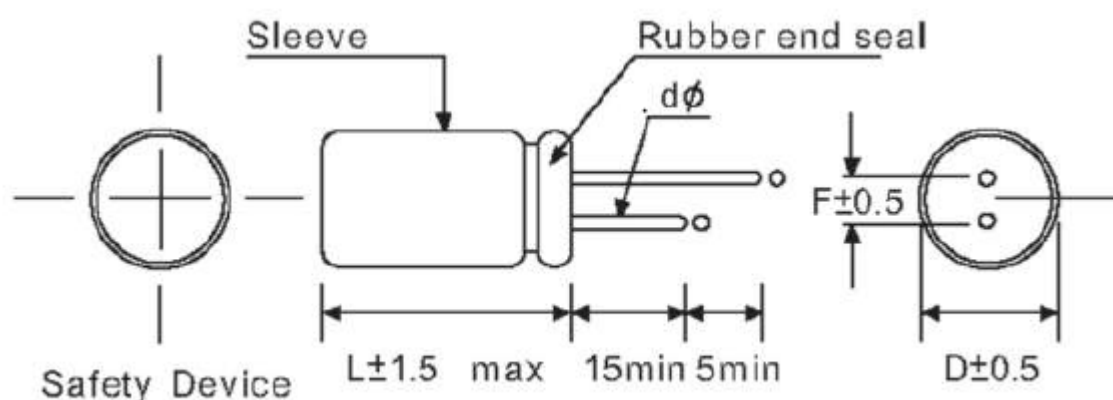
Specifications:

Item	Performance Characteristics														
Operating Temperature Range	-40 to +105°C								-25 to +105°C						
Rated Voltage Range	6.3 to 100 VDC								160 to 450 VDC						
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	-	-	-	-	-	-
Load Life	Test Conditions: Duration time: 1000Hrs Ambient temperature: +105°C Applied voltage: Rated DC working voltage After test requirements : ≤ 30% of the initial measured value Dissipation Factor: ≤ 200% of the initial specified value Leakage Current: ≤ the initial specified value														
Shelf Life	Test Conditions: Duration time: 1000Hrs Ambient temperature: +105°C Applied voltage: None After test requirements at +20°C: Same limits as load life Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes														

Features:

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

Diagram of Dimensions:



D ϕ	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
d ϕ	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(μ F)/Hz		50(60)	120	400	1K	10K	50-100K
Multiplier	CAP $\leq$ 10	0.8	1.0	1.30	1.45	1.65	1.70
	10<CAP $\leq$ 100	0.8	1.0	1.23	1.36	1.48	1.53
	100<CAP $\leq$ 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