

KLF Aluminium Electrolytic Capacitors

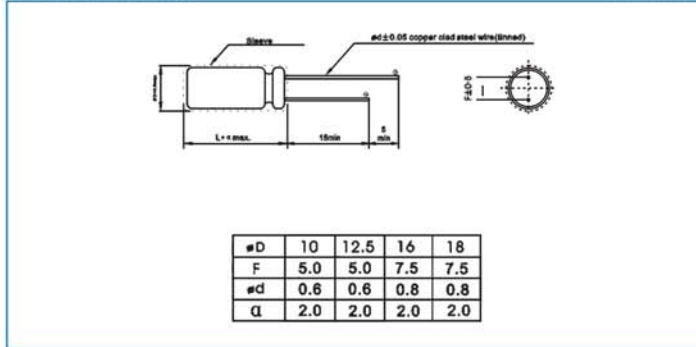
105°C Use, Long Life Capacitors, Series KLF

Guarantees 8000–10000 hours at 105°C

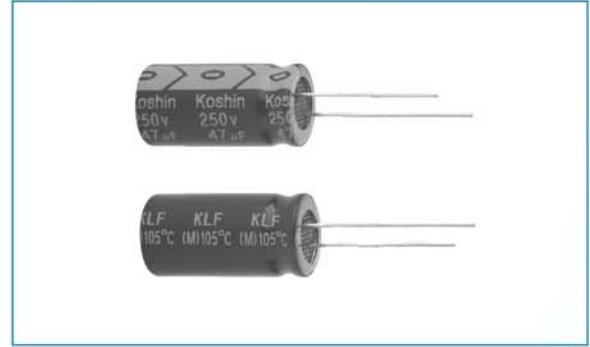
RoHS

Outline Drawing

Unit: mm



Photo



Marking color: White print on black sleeve

Specifications

No.	Item	Performance							
1	Temperature range (°C)	160 ~ 450V: -25 to +105							
2	Leakage current (μA)	Less than 0.02CV (after two minutes) C: Capacitance (μF) V: Rated voltage(V) 20°C							
3	Capacitance tolerance (%)	± 20 (20°C, 120Hz)							
4	Tangent of the loss angle (Tan δ)	Rated voltage (V)	160	200	250	350	400	450	(20°C, 120Hz)
		Tan δ (max)	0.15	0.15	0.15	0.15	0.15	0.15	
5	Low temperature characteristics	Rated voltage (V)	160	200	250	350	400	450	(120Hz)
		Impedance ratio (max) $Z_{(-25°C)}/Z_{(+20°C)}$	3	3	3	6	6	6	
6	Endurance (105°C) (Applied ripple current)	Test time	10000hours (Φ10: 8000 hours)						
		Leakage current	The initial specified value or less						
		Percentage of capacitance change	Within ± 20% of initial value						
		Tangent of the loss angle	200% or less of the initial specified value						
7	Shelf life (105°C)	Test time	1000hours						
		Leakage current	The initial specified value or less						
		Percentage of capacitance change	Within ± 20% of initial value						
		Tangent of the loss angle	200% or less of the initial specified value						
		Voltage application treatment: According to JIS-C-5102							
8	Applicable standards	JIS-C-5102 and JIS-C-5141							

Coefficient of Frequency for Ripple Current

Frequency	120	1K	10K	≥ 10K
Multiplier	0.5	0.8	0.85	1.0

Multiplier for Ripple Current vs. Temperature

Temperature°C	≥ 60	85	105
Multiplier	2.0	1.4	1.0

Dimension: Φ DXL(mm)

Ripple Current: mA/rms at 120Hz, 105°C

DIMENSION & PERMISSIBLE RIPPLE CURRENT

μ F	V.DC Contents	160V		200V		250V		350V		400V		450V	
		Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA	Φ D x L	mA
6.8							→	10X20	180	10X20	180	13X20	120
10		10X16	220	10X20	220	10X20	240	13X20	220	13X20	220	13X25	270
22		10X20	350	10X20	350	13X20	420	13X25	300	16X25	370	16X25	460
33		13X20	400	13X20	470	13X25	180	16X21	350	18X21	420	18X25	500
47		13X20	520	13X20	520	16X21	650	18X21	500	18X25	600	18X31.5	630
68		13X25	700	16X25	700	18X21	830	18X25	630	18X31.5	780		
100		18X21	920	18X21	920	18X25	1020						
150		18X25	1070	18X25	1070	18X31.5	1220						
220		18X25	1130	18X31	1300								