

KAG Miniature Aluminum Electrolytic Capacitors

Downsize, high ripple design(ϕ 10 to 18)

Rated voltage range:200 to 450Vdc.,Capacitor range :18 to 560 μ F

Endurance with ripple current: 2,000 hours at 105°C

Ideal for low profile power supply applications

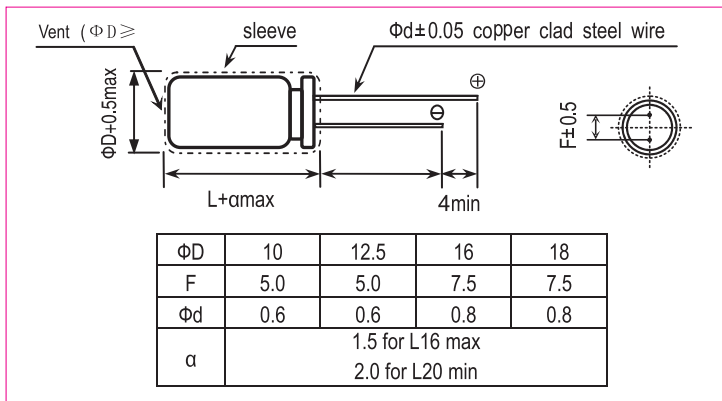
Non solvent resistant type

RoHS Compliant

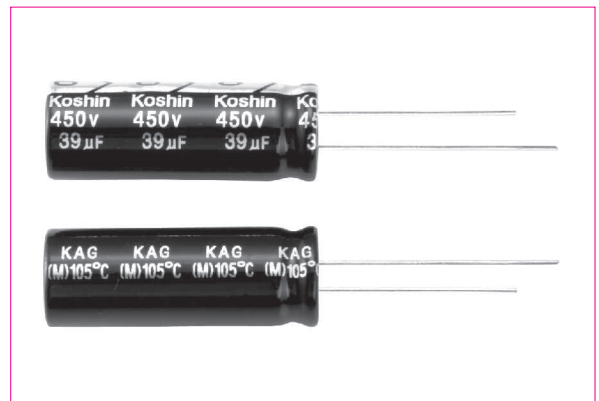
RoHS

Outline Drawing

Unit: mm



Photo



Marking color: white print on black sleeve

Specifications

No.	Item	Performance					
1	Temperature range (°C)	-40 to +105(200,400Vdc)			-25 to +105(420,450Vdc)		
2	Leakage current (μ A)	Less than 0.03CV or 3 whichever is larger (after two minutes) C: Rated Capacitance (μ F). V: Rated voltage (V) 20°C					
3	Capacitance tolerance (%)	20 (20°C, 120Hz)					
4	Tangent of the loss angle (Tan δ)	Rated voltage (V)	200V	400V	420V	450V	20°C 120Hz
		Tan δ (max)	0.12	0.15	0.20	0.20	
5	Low temperature Characteristics	Rated voltage (V)	200V	400V	420V	450V	120Hz
		Impedance ratio (max)	$Z_{(-25^{\circ}\text{C})}/Z_{(+20^{\circ}\text{C})}$	3	5	6	
6	Endurance (105°C) (Applied ripple current)	Test time	2000hours				
		Leakage current	The initial specified value or less				
		Percentage of capacitance change	Within $\pm 20\%$ 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	500% of 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				
8	Applicable standards	JIS-C-5102 and JIS-C-5141					

Coefficient of Frequency for Ripple Current

Frequency (Hz)	120	1K	10K	100K
Capacitance (μ F)				
18 to 82	1.00	1.50	1.75	1.80
100 to 560	1.00	1.30	1.40	1.50

Dimension: Φ DXL(mm)

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

DIMENSION & PERMISSIBLE RIPPLE CURRENT

μ F	V.DC Contents	200V				400V			
		Φ D×L	mA	* Φ D×L	mA	Φ D×L	mA	* Φ D×L	mA
27						10X30	260		
33						10X35	300		
39						10X40	340		
47						12.5X30	370		
56						12.5X35	420		
68						12.5X40	480		
82		10X30	440	-	-	16X30	530		
100		10X35	510	-	-	16X35	580	18X30	580
120		10X40	590	-	-	16X40	670	18X35	670
150		12.5X30	650	-	-	18X35	770		
180		12.5X35	750	-	-	18X40	880		
220		12.5X40	830	-	-	18X45	1000		
270		16X30	960	-	-				
330		16X35	1100	18X30	1100				
390		16X40	1240	18X35	1240-				
470		18X40	1390	-	-				
560		18X45	1560	-	-				

μ F	V.DC Contents	420V				450V			
		Φ D×L	mA	* Φ D×L	mA	Φ D×L	mA	* Φ D×L	mA
18						10X30	210		
22		10X30	230			10X35	240		
27		10X35	270			10X40	280		
33		10X40	310			12.5X30	310		
39		12.5X30	330			12.5X35	350		
47		12.5X35	390			12.5X40	390		
56		12.5X40	430			16X30	440		
68		16X30	510			16X35	500		
82		16X35	570			16X40	550	18X30	550
100		16X40	610	18X30	610	18X35	650		
120		18X35	690			18X40	740		
150		18X40	790			18X45	810		