



RUK Series

Features

- 125°C, 3,000 ~ 5,000 hours assured
- For automobile modules and other high temperature applications
- RoHS Compliance

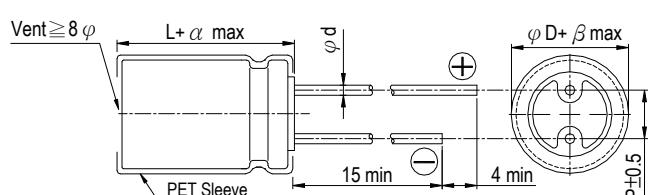


Sleeve & Marking Color: Black & White

Specifications

Items	Performance					
Category Temperature Range	-40°C ~ +125°C					
Capacitance Tolerance	$\pm 20\%$					
Leakage Current (at 20°C)	I = 0.01CV or 3 (μ A) whichever is greater (after 2 minutes) Where, C = rated capacitance in μ F V = rated DC working voltage in V					
Tanδ (at 120 Hz, 20°C)	Rated Voltage	10	16	25	35	50
	Tanδ (max)	0.15	0.12	0.10	0.10	0.08
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.					
	Rated Voltage	10	16	25	35	50
	Impedance Ratio	Z(-25°C) / Z(+20°C)	3	2	2	2
		Z(-40°C) / Z(+20°C)	6	4	4	4
Endurance	Test Time	3,000 Hrs for $\phi D \leq 8\text{mm}$; 5,000 Hrs for $\phi D \geq 10\text{mm}$				
	Capacitance Change	With in $\pm 20\%$ of initial value				
	Tanδ	Less than 200% of specified value				
	Leakage Current	Within specified value				
* The above Specifications shall be satisfied when the capacitors are restored to 20°C after applied with rated subjected to DC voltage with the rated ripple current is applied for 3,000 / 5,000 hours at 125°C.						
Shelf Life Test	Test Time	1,000 Hrs				
	Capacitance Change	With in $\pm 20\%$ of initial value				
	Tanδ	Less than 200% of specified value				
	Leakage Current	Less than 500% of specified value				
Ripple Current & Frequency Multipliers	Freq.(Hz)	120	1k	10k	100k up	
	Cap. (μ F)	0.47 ~ 100	1.00	1.70	1.88	2.00
		150 ~ 470	1.00	1.45	1.58	1.65
		1,000	1.00	1.20	1.25	1.33

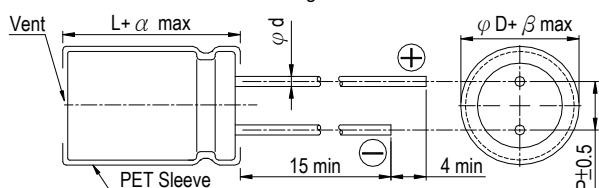
Diagram of Dimensions



Lead Spacing and Diameter				
φ D	8	10	12.5	16
P	3.5	5.0	5.0	7.5
φ d	0.6			
α	2.0			
β	0.5			

Unit: mm

The case size of 16×20 is suitable for below diagram:



Dimension: $\phi D \times L(\text{mm})$

Ripple Current: mA/rms at 120 Hz, 125°C

Dimension & Permissible Ripple Current

V. DC μF	Contents	10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)	
		$\phi D \times L$	mA										
10	100									8x11.5	56	8x11.5	56
22	220							8x11.5	75	10x12.5	99	10x12.5	99
33	330					8x11.5	92	10x12.5	108	10x16	133	10x16	133
47	470			8x11.5	100	10x12.5	129	10x16	142	10x16	159	10x20	173
100	101	10x12.5	154	10x16	190	10x16	208	10x20	225				
220	221	10x16	252	10x20	305	12.5x20	371	12.5x25	403	12.5x20	279	12.5x20	279
330	331	10x16	308	12.5x20	414	12.5x25	493	16x20	503				
470	471	10x20	399	12.5x25	537	16x20	601			16x20	459		
1,000	102	16x20	715										

Part Numbering System

RUK series 470μF ±20% 16V Bulk Package Gas Type 12.5 $\phi \times 25L$ Pb-free and PET coating case

RUK Series	471 Capacitance	M Capacitance Tolerance	1C Rated Voltage	BK Lead Configuration & Package	-	1325 Case Size	
					Rubber Type		Lead Wire and Coating Type

Note: For more details, please refer to "Part Numbering System (Radial Type)" on page 10.

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