

VUK

VUK Series

Features

- 12.5 ϕ ~ 18 ϕ , 125°C, 5,000 hours assured
- Chip type high temperature range, for +125 $^{\circ}$ C use
- For automobile modules and other high temperature applications
- · RoHS Compliance

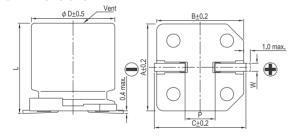


Marking color: Black

Specifications

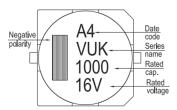
Items	Performance											
Category Temperature Range	-40°C ~ +125°C											
Capacitance Tolerance	±20% (at 120Hz, 20°C											
Leakage Current (at 20°C)		I = 0.03CV or 4 (μA) whichever is greater (after 1 minutes) Where, C = rated capacitance in μF, V = rated DC working voltage in V										
Tanδ (at 120Hz, 20°C)		Tanδ	Voltage i (max) ne capacitan	10 0.22 ce exceeds	16 0.18 s 1,000µF,	25 0.16 0.02 shall b	35 0.14 e added e	50 0.12 very 1,000	63 0.12 0µF increa	2		
	Impedance ratio shall not exceed the values given in the table below.											
		Ra	ted Voltage		10	16	25	35	50	63		
Low Temperature Characteristics (at 120Hz)	I	mpedance	Z(-25°C)/	Z(+20°C)	6	5	4	3	3	3		
Characteristics (at 120Hz)		Ratio			12	8	6	4	4	4]	
Endurance	Tanδ Less than 300%							of initial value of specified value cified value red to 20°C after the rated voltage applied for				
		Test Time				1						
		C	apacitance	Change	Within ±30% of initial value							
Shelf Life Test			Tanδ		Less than 300% of specified value							
	Leakage Current Within specified value											
	* The above specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 125°C without voltage applied.											
Ripple Current and		Cap.(μF	:)	eq.(Hz)	50	120		lk	10k up			
Frequency Multipliers			Under 330 < C ≤ 4,		0.80	1.0		25	1.40			
		0.85	1.0		20	1.30						

Diagram of Dimensions



Lead S	pacing and	Unit: mm				
ϕ D	L	Α	В	С	W	P ± 0.2
12.5	13.5 ± 0.5	13.0	13.0	13.7	1.1 ~ 1.4	4.4
12.5	16 ± 0.5	13.0	13.0	13.7	1.1 ~ 1.4	4.4
16	16.5 ± 0.5	17.0	17.0	18.0	1.1 ~ 1.4	6.4
18	16.5 ± 0.5	19.0	19.0	20.0	1.1 ~ 1.4	6.4
18	21.5 ± 0.5	19.0	19.0	20.0	1.1 ~ 1.4	6.4

Marking



Lelon

SMD Aluminum Electrolytic Capacitors

Dimension: $\phi D \times L(mm)$

Dimension and Permissible Ripple Current

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

V. DC		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)		63V (1J)	
μF	ontents	ϕ D×L	mA	φD×L	mA								
100	101									12.5×13.5	170	12.5×13.5	150
220	221							12.5×13.5	200	16×16.5	250	16×16.5	230
330	331			12.5×13.5	230	12.5×13.5	230	16×16.5	280	18×16.5	340	18×16.5	320
470	471	12.5×13.5	230	12.5×13.5	250	16×16.5	310	18×16.5	380	18×21.5	430	18×21.5	410
680	681	12.5×13.5	250	12.5×13.5	280	16×16.5	350	18×16.5	450				
1,000	102	12.5×16	350	16×16.5	440	18×21.5	540						
1,500	152	12.5×16	350	16×16.5	460								
2,200	222	18×16.5	620	18×21.5	710								
3,300	332	18×21.5	770										

Part Numbering System

Pb-free and PET Carrier VUK Series 330µF ±20% 16V 12.5 φ×13.5L coating case Tape **VUK** 331 <u>1C</u> **TR** <u>1313</u> M Package Type Terminal Lead Wire and Capacitance Rated Series Name Capacitance Case size Voltage Coating Type

Note: For more details, please refer to "Part Numbering System (SMD Type)" on page 15.

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EMVY350ARA221MHA0G UV2G3R3M0810VG EMK1VM101FB0D00R RVT2A4R7M0605 MAL214097402E3 MAL215375471E3

MAL224699909E3 MAL224699813E3 MAL215099014E3 MAL215099017E3 MAL215099117E3 MAL215099818E3

HV100M100E077ETR RC0J226M04005VR RC0J476M05005VR RC1A227M08010VR RC1V476M6L006VR MAL214099111E3

EXV107M025A9HAA 50SEV1M4X5.5 50SKV1M4X5.5 TYEH1A336E55MTR UCD1V100MCQ1GS UCX1H471MNQ1MS

35SGV220M10X10.5 35SLV10M5X6.1 VEJ220M1VTR-0606 VES2R2M1HTR-0405 50SEV10M6.3X5.5 50SGV1M4X6.1 107SML016M

EDK226M035A9DAA EEV-HA1A471UP SC1C476M05005VR UCX1H471MNS1MS VZH331M1ETR-0810 VES101M1CTR-0605