

VU

Surface mount type
series

- Lower ESR than VL series
- High ripple current
- Load life of 2,000h at 105°C



SPECIFICATIONS

Items	Characteristics	
Temperature range	-55 to +105°C	
Rated voltage range	2.5 to 16Vdc	
Capacitance range	150 to 560μF	
Capacitance tolerance	±20% [M] (at 20°C, 120Hz)	
Tangent of loss angle	Less than or equal to the value of Standard Ratings (at 20°C, 120Hz)	
Leakage current	Less than or equal to the value of Standard Ratings (at 20°C, after 2 minutes)	
ESR	Less than or equal to the value of Standard Ratings	
Characteristics of impedance	Z _{+105°C/Z+20°C} ≤ 1.25, Z _{-55°C/Z+20°C} ≤ 1.25 at 100kHz	
Endurance	105°C, 2,000 hrs at rated voltage	
	Appearance	No significant damage
	Capacitance change	Within±20% of the initial value
	Tangent of loss angle (tanδ)	≤150% of the initial specified value
	ESR(mΩ)	≤150% of the initial specified value
Damp Heat (Steady State)	Leakage current	≤The initial specified value
	60°C , 90 to 95% RH , 1,000 hrs , No-applied Voltage	
	Appearance	No significant damage
	Capacitance change	Within±20% of the initial value
	Tangent of loss angle (tanδ)	≤150% of the initial specified value
	ESR(mΩ)	≤150% of the initial specified value
Resistance to soldering heat	Leakage current	≤The initial specified value
	VPS (230°C , 75s)	
	Appearance	No significant damage
	Capacitance change	Within±10% of the initial value
	Tangent of loss angle (tanδ)	≤130% of the initial specified value
	ESR(mΩ)	≤130% of the initial specified value
	Leakage current	≤The initial specified value

*In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C

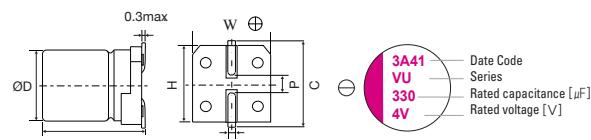
DIMENSIONS

(unit : mm)

μF \ RV(SV)	2.5 (3.3)	4 (5.2)	6.3 (8.2)	16 (18.4)
150			5 x 5.9	
180			5 x 5.9	6.3 x 9.9
220			6.3 x 5.9	
270	5 x 5.9			
330	5 x 5.9	6.3 x 5.9		
390	5 x 5.9 6.3 x 5.9			
470				10 x 12.6
560	6.3 x 5.9			

*RV : Rated Voltage [V] SV : Surge Voltage [V] (at room temperature)

MARKING AND SIZE LIST

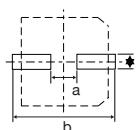


Size	Φ D±0.5	L ± ^{0.1} _{-0.4}	W±0.2	H±0.2	C±0.2	R	P±0.2
5 x 5.9	5.0	5.9	5.3	5.3	6.0	0.6 to 0.8	1.4
6.3 x 5.9	6.3	5.9	6.6	6.6	7.3	0.6 to 0.8	2.1
6.3 x 9.9	6.3	9.9	6.6	6.6	7.3	0.6 to 0.8	2.1
10 x 12.6	10.0	12.6	10.3	10.3	11.0	0.8 to 1.1	4.6

RECOMMENDED LAND PATTERN DIMENSION OF PCB

(unit : mm)

Size	a	b	c
5 x 5.9	1.4	7.4	1.6
6.3 x 5.9	2.1	9.1	1.6
6.3 x 9.9	2.1	9.1	1.6
10 x 12.6	4.3	13.1	1.9



Conductive Polymer Aluminum Capacitors

STANDARD RATINGS

Rated Voltage [Vdc]	Rated Capacitance [μ F]	Size Φ D x L [mm]	ESR (20°C, 100kHz) [$m\Omega$] [max.]	Rated Ripple Current (105°C, 100kHz) [mAms]	Tangent of Loss Angel [max.]	Leakage Current [μ A, max.]	Part Number
2.5	270	5.0 x 5.9	10	3860	0.12	500	2VU270MB6
	330	5.0 x 5.9	10	3860	0.12	500	2VU330MB6
	390	5.0 x 5.9	10	3860	0.12	700	2VU390MB6
	390	6.3 x 5.9	10	3900	0.12	500	2VU390MC6
	560	6.3 x 5.9	10	3900	0.12	500	2VU560MC6
4	330	6.3 x 5.9	10	3900	0.12	500	4VU330MC6
6.3	150	5.0 x 5.9	12	3520	0.12	500	6VU150MB6
	180	5.0 x 5.9	15	3150	0.12	500	6VU180MB6
	220	6.3 x 5.9	10	3900	0.12	500	6VU220MC6
16	180	6.3 x 9.9	11	4460	0.12	576	16VU180MC10
	470	10 x 12.6	10	6100	0.12	1504	16VU470ME12