RU

Radial Lead Type

series

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

Halogen Less

RoHS compliant

Pb lead-free

SPECIFICATIONS

Items	Characteristics	
Temperature range	-55 to +105°C	
Rated voltage range	2.5 to 6.3Vdc	
Capacitance range	470 to 1,500μF	
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	$Z_{+105°C}/Z_{+20°C} \leq 1.25$, $Z_{-55°C}/Z_{+20°C} \leq 1.25$ 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
	Leakage current	≤The initial specified value
Damp Heat (Steady State)	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
	Leakage current	≤The initial specified value
Resistance to soldering heat	Flow method (260±5°C, 10s)	
	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

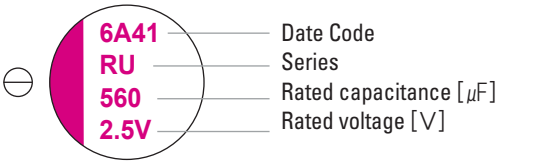
SIZE LIST

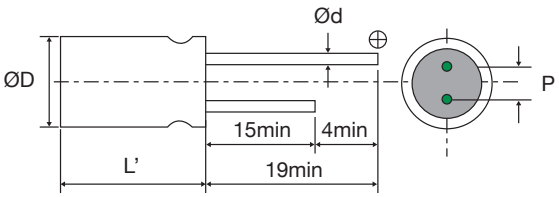
(unit: mm)

μF \ RV(SV)	2.5 (3.3)	4 (5.2)	6.3 (8.2)
470			8 x 11.5
560	8 x 9	8 x 9 8 x 11.5	
680		8 x 11.5	10 x 11.5
820	8 x 9 8 x 11.5	10 x 11.5	10 x 11.5
1000	10 x 11.5		
1200		10 x 11.5	
1500	10 x 11.5		

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

MARKING AND DIMENSIONS





(unit: mm)

Size	ØD±0.5	L	L'	P±0.5	Ød
8 x 9	8.0	9.0	L max.	3.5	0.6
8 x 11.5	8.0	11.5	L+1.0max.	3.5	0.6
10 x 11.5	10.0	11.5		5.0	0.6

Conductive Polymer Aluminum Capacitors

STANDARD RATINGS

Rated Voltage [Vdc]	Rated Capacitance [μF]	Size ΦD x L [mm]	ESR (20°C, 100kHz) [mΩ] [max.]	Rated Ripple Current (105°C, 100kHz) [mArms]	Tangent of Loss Angel [max.]	Leakage Current [μA, max.]	Part Number
2.5	560	8 x 9	5	6300	0.10	500	2RU560MD9
	820	8 x 9	5	6300	0.10	500	2RU820MD9
	820	8 x 11.5	5	6600	0.10	500	2RU820MD11
	1000	10 x 11.5	5	7100	0.10	500	2RU1000ME11
	1500	10 x 11.5	5	7300	0.10	750	2RU1500ME11
4	560	8 x 9	5	6300	0.10	500	4RU560MD9
	560	8 x 11.5	5	6300	0.10	500	4RU560MD11
	680	8 x 11.5	5	6500	0.10	544	4RU680MD11
	820	10 x 11.5	5	7000	0.10	656	4RU820ME11
	1200	10 x 11.5	5	7200	0.10	960	4RU1200ME11
6.3	470	8 x 11.5	5	6400	0.10	592	6RU470MD11
	680	10 x 11.5	5	6700	0.10	857	6RU680ME11
	820	10 x 11.5	5	6800	0.10	1033	6RU820ME11