RU series

- Lower ESR than RL series
- Ultra low ESR at a high frequency
- High ripple current

Specifications

Items	Characteristics	
Temperature range	-55°C ~ +105°C	
Rated voltage range	2.5Vdc ~ 6.3Vdc	
Capacitance range	470㎌ ~ 1,500㎌	
Capacitance tolerance	±20% [M] (at 20°C, 120Hz)	
Tangent of loss angle	Less than or equal to the value of STANDARD RATING (at 20°C, 120Hz)	
Leakage current	Less than or equal to the value of STANDARD RATING (at 20°C, after 2 minutes)	
ESR	Less than or equal to the value of STANDARD RATING	
Characteristics of impednace	$Z_{+105°C}$ / $Z_{+20°C}$ ≤1.25, $Z_{-55°C}$ / $Z_{+20°C}$ ≤1.25 at 100kHz	
Endurance	105°C, 3,000 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 , 1000 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

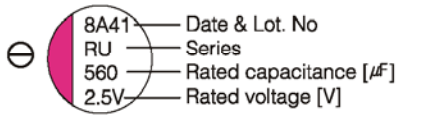
Dimensions

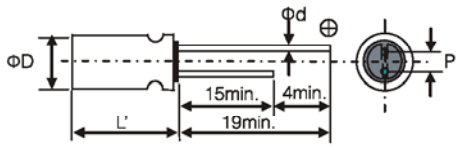
(unit : mm)

㎌ \ RV (SV)	2.5(3.3)	4(5.2)	6.3(8.2)
470			8.0x9.0,8.0x11.5
560	8.0x9.0	8.0x9.0, 8.0x11.5	8.0x9.0
680		8.0x11.5	10x11.5
820	8.0x9.0, 8.0x11.5	10x11.5	8.0x9.0,8.0x11.5
1000	8.0x9.0	8.0x9.0, 10x11.5	
1200		8.0x9.0	
1500	8.0x9.0		

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

Marking and Size list





Size	ΦD±0.5	L	L'	P±0.5	Φd
8.0x9.0	8.0	9.0	Lmax	3.5	0.60
8.0x11.5	8.0	11.5	L+1.0max	3.5	0.60
10.0x11.5	10.0	11.5		5.0	0.60

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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, max.]	Tangent of Loss Angle [max.]	Leakage Current [μA, max.]	Part Number
2.5	560	8.0x9.0	6	6100	0.10	280	2RU560MD9
	820	8.0x9.0	6	6100	0.10	410	2RU820MD9
	820	8.0x11.5	6	6100	0.10	410	2RU820MD11
	1000	8.0x9.0	6	6100	0.10	500	2RU1000MD9
	1500	8.0x9.0	6	6100	0.10	750	2RU1500MD9
4	560	8.0x9.0	6	6100	0.10	448	4RU560MD9
	560	8.0x11.5	6	6100	0.10	448	4RU560MD11
	680	8.0x11.5	6	6100	0.10	544	4RU680MD11
	820	10x11.5	6	6640	0.10	656	4RU820ME11
	1000	8.0x9.0	6	6100	0.10	800	4RU1000MD9
	1000	10x11.5	6	6640	0.10	800	4RU1000ME11
	1200	8.0x9.0	6	6100	0.10	960	4RU1200MD9
6.3	470	8.0x9.0	6	5700	0.10	592	6RU470MD9
	470	8.0x11.5	6	5700	0.10	592	6RU470MD11
	560	8.0x9.0	6	5700	0.10	705	6RU560MD9
	680	10x11.5	6	6640	0.10	857	6RU680ME11
	820	8.0x9.0	6	5700	0.10	1033	6RU820MD9
	820	8.0x11.5	6	5700	0.10	1033	6RU820MD11