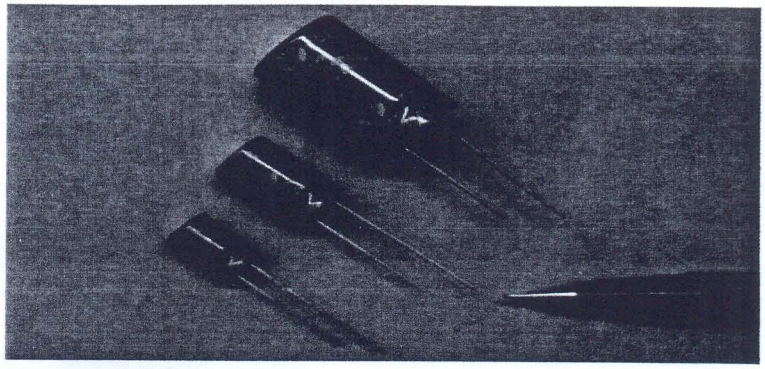
RMU SERIES

105°C, Miniature, Radial Leads

▣ Features

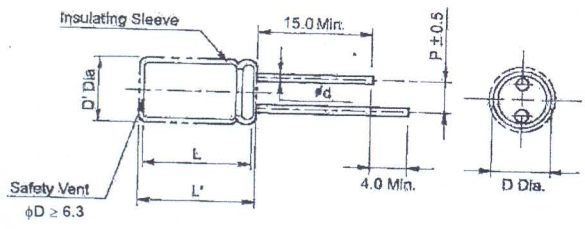
- 105°C, Miniature, Radial
- Wide operating temperature range
- High CV (Smaller than RUS)
- Load life of 2000 hours at 105°C



▣ Specifications

Item	Performance Characteristics										
Operating temperature range	-40°C ~ +105°C			-40°C ~ +105°C			-25°C ~ +105°C				
Rated working voltage range	6.3V ~ 100V			160V ~ 250V			350V ~ 450V				
Nominal capacitance range	0.47μF ~ 22000μF, ± 20% (At 20°C, 120Hz)										
D.C Leakage current (at 20°C)	The following specifications shall be satisfied when the rated voltage is applied for the requried time.										
	I ≤ 0.01CV + 3μA (2min)			I ≤ 0.01CV + 10μA (3min)			I ≤ 0.02CV + 30μA (5min)				
	Where I = Leakage current (μA) C = Nominal capacitance (μF) V = Rated voltage (V)										
Tanδ (max., at 20°C, 120Hz)	W.V(V)	6.3	10	16	25	35	50	63	100	160~250	350~450
	Tanδ	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.20
	When capacitance is over 1000μF, Tanδ shall be added 0.02 to the listed value with increase of every each 1000μF.										
Characteristics at low temperature (max.) (impedance ratio at 120Hz)	W.V(V)	6.3	10	16	25	35	50~100		160~250	350~450	
	Z - 25°C/Z 20°C	5	4	3	2	2	2		3	6	
	Z - 40°C/Z 20°C	10	8	6	4	3	3		4	-	
Load life	After applying rated working voltage for 2000 hours at +105°C and then being stabilized at +20°C, capacitors shall meet following limits.										
	Capacitance change	Within ±20% of the initial measured value									
	Tanδ	≤ 200% of the initial specified value									
	Leakage current	≤ The initial specified value									
Shelf life	After storage for 1000 hours at +105°C with no voltage applied and then being stabilized at +20°C, capacitors shall meet following limits.										
	Capacitance change	Within ±20% of the initial measured value									
	Tanδ	≤ 150% of the initial specified value									
	Leakage current	≤ The initial specified value									

▣ Dimensions



• Standard lead style

φD	5.0	6.3	8.0	10.0	12.5	16.0	18.0
P	2.0	2.5	3.5	5.0		7.5	
φd	0.5		0.6			0.8	

D' = [D+0.5] Max.

L' = [L+1.0] Max. at D ≤ 8.0
L' = [L+1.5] Max. at D ≥ 10.0

▣Ripple current coefficient

• Frequency

Freq(Hz) / Cap(μF)	50	120	400	1K	10K	50~100K
Cap≤10	0.8	1.0	1.30	1.45	1.65	1.70
10<Cap≤100	0.8	1.0	1.23	1.36	1.48	1.53
100<Cap≤1000	0.8	1.0	1.16	1.25	1.35	1.38
1000<Cap	0.8	1.0	1.11	1.17	1.25	1.28

• Temperature

Temperature	≤ 70°C	85°C	105°C
Factor	1.95	1.65	1.0

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▣ Dimensions & Maximum permissible ripple current

φD x L (mm)

W.V(V) / Cap(μF)	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)		100(2A)	
	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R
0.47											5x11	7				
1.0							5x11	10	5x11	12	5x11	14	5x11	10	5x11	12
2.2											5x11	23	5x11	20	5x11	21
3.3					5x11	24			5x11	25	5x11	27	5x11	28	5x11	30
4.7							5x11	29	5x11	30	5x11	32	5x11	31	5x11	34
10					5x11	33	5x11	38	5x11	40	5x11	46	5x11	50	6.3x11	52
22					5x11	49	5x11	55	5x11	65	5x11	70	5x11	73	6.3x11	89
33					5x11	60	5x11	65	5x11	70	5x11	88	6.3x11	108	8x11.5	123
47			5x11	78	5x11	80	5x11	84	5x11	91	6.3x11	112	6.3x11	126	10x12.5	182
100	5x11	110	5x11	101	5x11	113	6.3x11	137	6.3x11	149	8x11.5	202	10x12.5	220	10x20	305
220	5x11	144	5x11	153	6.3x11	190	8x11.5	255	8x11.5	270	10x12.5	343	10x16	407	12.5x20	540
330	6.3x11	201	6.3x11	204	8x11.5	274	8x11.5	306	10x12.5	372	10x16	460	10x20	520	12.5x25	670
470	6.3x11	233	6.3x11	248	8x11.5	328	10x12.5	423	10x16	488	10x20	583	12.5x20	740	16x25	921
680	8x11.5	340	8x11.5	383	10x12.5	429	10x16	556	10x20	618	12.5x20	820	12.5x25	956	16x35.5	1230
1000	8x11.5	405	10x12.5	496	10x16	585	10x20	729	12.5x20	920	12.5x25	1096	16x25	1230	18x40	1480
1500	10x16	569	10x16	653	10x20	720	12.5x20	911	12.5x25	1092	16x31.5	1279	16x35.5	1500		
2200	10x20	760	10x20	820	12.5x20	957	12.5x25	1173	16x25	1380	16x35.5	1660	18x35.5	1820		
3300	10x20	885	12.5x20	1070	12.5x25	1244	16x25	1486	16x35.5	1770	18x35.5	2010				
4700	12.5x20	1166	12.5x25	1310	16x25	1520	16x31.5	1835	18x35.5	2160						
6800	12.5x25	1410	16x25	1626	16x31.5	1904	18x35.5	2254								
10000	16x25	1687	16x35.5	2060	18x35.5	2315										
15000	16x35.5	2100	18x35.5	2360												
22000	18x40	2500														

W.V(V) / Cap(μF)	160(2C)		200(2D)		250(2E)		350(2V)		400(2G)		450(2W)	
	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R	SIZE	I_R
1.0	6.3x11	11	6.3x11	11	6.3x11	12	6.3x11	12	8x11.5	12	8x11.5	11
2.2	6.3x11	19	6.3x11	19	6.3x11	20	8x11.5	24	8x11.5	24	10x12.5	23
3.3	6.3x11	27	6.3x11	27	8x11.5	31	8x11.5	32	10x12.5	36	10x12.5	34
4.7	6.3x11	33	8x11.5	39	8x11.5	39	10x12.5	46	10x16	46	10x16	42
10	10x12.5	66	10x12.5	69	10x12.5	69	10x16	75	10x20	78	12.5x20	76
22	10x16	112	10x16	112	10x20	120	12.5x20	128	12.5x25	140	12.5x25	138
33	10x20	142	10x20	150	12.5x20	165	12.5x25	183	16x25	195	16x25	190
47	12.5x20	198	12.5x20	202	12.5x25	220	16x25	232	16x.25	245	16x35.5	240
100	12.5x25	325	16x25	345	16x31.5	375	16x35.5	382	18x40	395		
220	16x31.5	570	18x35.5	585	18x40	600						
330	18x35.5	754										

I_R : Maxium permissible ripple current [mA(rms) at 105°C,120Hz]