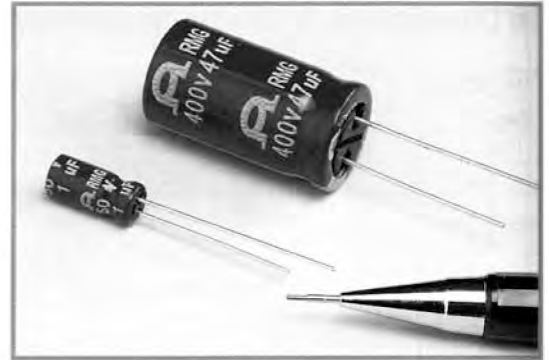


RMG SERIES

85°C, Miniature, Radial Leads

■ Features

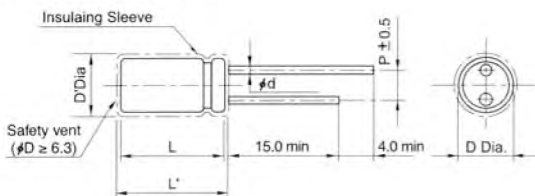
- 85°C, Miniature, Radial
- High CV (Smaller than RM)
- Ideal for automatic insertion
- Load life of 2000 hours at 85°C



■ Specifications

Item	Performance Characteristics										
Operating temperature range	-40°C ~ +85°C			-40°C ~ +85°C			-25°C ~ +85°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 required time.										
	I ≤ 0.01CV or 3µA (2min) Whichever is greater			I ≤ 0.01CV + 10µA (3min)			I ≤ 0.02CV + 30µA (3min)				
	Where I = Leakage current(µA) C= Nominal capacitance (µF) V= Rated voltage (V)										
Tan δ(max., at 20°C, 120Hz)	W.V(V)	6.3	10	16	25	35	50	63	100	160~250	350~450
	Tan δ	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, Tan δ 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/Z20°C	5	4	3	2	2	2	3	6		
	Z-40°C/Z20°C	12	10	8	5	4	3	5	-		
Load life	After applying rated working voltage for 2000 hours at +85°C and then being stabilized at +20°C, capacitors shall meet following limits.										
	Capacitance change	Within ± 20% of the initial measured value									
	Tan δ	≤ 200% of the initial specified value									
	Leakage current	≤ The initial specified value									
Shelf life	After storage for 1000 hours at +85°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									
	Tan δ	≤ 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

Cap(µF)	Freq(Hz)	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	≤ 60°C	70°C	85°C
Factor	1.65	1.37	1.0



RMG SERIES

■ Dimensions & Maximum permissible ripple current

φ D × L(mm)

W.V(V) Cap(μF)	6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)		50(1H)		63(1J)		
	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	
0.47											5x11	9			
1.0											5x11	17			
2.2											5x11	28			
3.3											5x11	35			
4.7											5x11	40			
10											5x11	60			
22											5x11	95	5x11	105	
33											5x11	129	6.3x11	140	
47										5x11	138	6.3x11	155	6.3x11	175
100							5x11	180	6.3x11	210	8x11.5	260	8x11.5	290	
220			5x11	230	6.3x11	292	6.3x11	290	8x11.5	350	10x12.5	430	10x16	500	
330			6.3x11	325	6.3x11	335	8x11.5	413	10x12.5	490	10x16	600	10x20	700	
470			6.3x11	385	8x11.5	450	10x12.5	575	10x16	710	10x20	790	12.5x20	900	
1000	8x11.5	618	10x12.5	660	10x12.5	720	10x16	875	12.5x20	1150	12.5x25	1350	16x25	1490	
2200	10x16	960	10x16	1100	10x20	1050	12.5x25	1600	16x25	1850	16x31.5	2000	18x35.5	2350	
3300	10x20	1350	12.5x20	1510	12.5x25	1770	16x25	2050	16x31.5	2170	18x35.5	2500			
4700	12.5x20	1610	12.5x25	1900	16x25	2160	16x25	2250	16x35.5	2500					
6800	12.5x25	1970	16x25	2300	16x25	2390	16x35.5	2710	18x40	2800					
10000	16x25	2300	16x31.5	2660	16x35.5	2750	18x40	2910							
15000	16x31.5	2870	16x35.5	3010	18x40	3220									
22000	18x35.5	3630	18x40	3750											

W.V(V) Cap(μF)	100(2A)		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	SIZE	I _r
0.47	5x11	11			6.3x11	15					6.3x11	13		
1.0	5x11	21			6.3x11	22					6.3x11	20		
2.2	5x11	30			6.3x11	33			6.3x11	30	8x11.5	36	8x11.5	28
3.3	5x11	40			6.3x11	42	6.3x11	40	8x11.5	43	8x11.5	48	10x12.5	40
4.7	5x11	45			6.3x11	52	6.3x11	50	8x11.5	55	10x12.5	60	10x12.5	48
10	5x11	75	8x11.5	85	8x11.5	85	10x12.5	100	10x12.5	90	10x16	95	10x20	90
22	6.3x11	132	10x12.5	135	10x16	150	10x20	160	12.5x20	160	12.5x25	200	12.5x25	150
33	8x11.5	185	10x16	185	10x20	200	10x20	200	12.5x25	220	16x25	240	16x25	200
47	8x11.5	210	10x20	220	12.5x20	270	12.5x20	270	16x25	310	16x25	310	16x31.5	260
68	8x11.5	275	12.5x20	360	12.5x25	370	16x25	400	16x25	420	16x31.5	400	18x35.5	300
100	10x16	340	12.5x25	460	16x25	470	16x25	470	18x31.5	530	18x35.5	480	18x40	310
220	12.5x20	570	16x31.5	595	16x35.5	710	18x35.5	720						
330	12.5x25	800	18x35.5	870	18x40	980								
470	16x25	1050	18x40	1200										
1000	18x31.5	1500												

I_r : Maximum permissible ripple current [mA(rms) at 85°C, 120Hz]

General

ORDERING INFORMATION for Leaded Type



Daewoo Components Corp.

Through-Hole Part Numbering System Example:

RM = Leaded Radial 85°C Miniature Series, **102** = 1000µF, **M** =20% Tolerance, **1E** 25 Volts, **B** = Bulk,
1020 = Case size (Dia x H) = 10.0 x 20.0mm, **E** = 5.0mm



(1) Series

See Quick Guide on page 2
Example: RSS, RM, RMU,...

(2) Capacitance Value Code

Capacitance expressed in micro Farads (µF)
First two digits are significant figures
Third digit denotes the number of zeros
Use R for decimal point for values less than 10µF

Examples:

CODE	Capacitance
R10	0.1 µF
R68	0.68 µF
1R0	1.0 µF
100	10 µF
680	68 µF
471	470 µF
102	1000 µF
103	10000 µF

(3) Capacitance Tolerance Code

CODE	Cap. Tol.	CODE	Cap. Tol.
J	±5%	V	-10% ~ +20%
K	±10%	Q	-10% ~ +30%
M	±20%	T	-10% ~ +50%
R	+20%, -0%		

(4) Rated Voltage Code

CODE	Voltage	CODE	Voltage
0G	4.0V	2C	160V
0J	6.3V	2S	180V
1A	10V	2D	200V
1C	16V	2E	250V
1E	25V	2F	315V
1V	35V	2V	350V
1H	50V	2G	400V
1J	63V	2W	450V
1K	80V	3Z	1000V
2A	100V		

(5) Packaging Form & Lead Style Code (see page 7, 8, 9 for details)

	Code	Packaging Form & Lead Style
Bulk	B	Bulk: Standard Package
	L	Bulk: 4 -8ø Long Leads Formed to 5 mm Pitch
Snap-In	1	10-13ø Snap-in Cut 5.0mm
	2	16-13ø Snap-in Cut 5.0mm
	3	10-13ø Snap-in Cut 4.5mm
	4	16-18ø Snap-in Cut 4.5mm
	5	4-8ø Snap-in Cut 7.5mm
Form	F	4-8ø Forming Cut 6.5mm
	G	4-8ø Forming Cut 10.0mm
Straight Cut	C	4-18ø Straight Cut 4.0mm
	6	4-18ø Straight Cut 3.1mm
	7	4-18ø Straight Cut 5.0mm
	8	4-18ø Straight Cut 6.35mm
Ammo Tape (+) Leading	A	4-8ø Straight Ammo
		Detail Ranges: 4-6.3ø; F=2.5mm 8ø; F=3.5mm
		4-8ø Form Tape & Ammo 5mm Pitch
		10ø Straight Ammo Tape 5mm Pitch
		13ø Straight Ammo Tape 5mm Pitch
16-18ø Straight Ammo Tape 5mm Pitch		
Tape & Reel (+) Leading	T	4-8ø Straight Ammo
		Detail Ranges: 4-6.3ø; F=2.5mm 8ø; F=3.5mm
		4-13ø Form Tape & Reel 5mm Pitch 10-13ø Straight Reel Tape 5mm Pitch

NOTE: Standard Pack Anode(+) Lead Leading FEEDS OFF FIRST
Special Option Cathode(-) Lead Leading available upon request
Standard Packages: B = Bulk, A = Ammo, T = Tape & Reel

(6) Example Dimension Code (Diameter x Height in mm)

Size Code	Diameter	Height	Size Code	Diameter	Height
0405	4	5	1320	13	20
0407	4	7	1631	16	31.5
0505	5	5	1835	18	35.5
0507	5	7	2240	22	40
0607	6.3	7	2545	25	45
0511	5	11	3035	30	35
0605	6	5	3500	35	100
0611	6.3	11	3501	35	110
0805	8	5	5102	51	120
0811	8	11	6303	63.5	130
1012	10	12.5	7604	76	140
1220	12.5	20	8904	89	140

(7) Lead Spacing Code (LS)

Code	X	A	B	C	D	E	J	F
LS	1.0	1.5	2.0	2.5	3.5	5.0	7.0	7.5
Code	K	M	G	P	H	Q	R	S
LS	8.0	10.0	10.5	12.0	12.5	12.8	15.0	16.0
Code	T	U	V	W	Y	Z		
LS	20.0	21.7	28.3	30.0	31.6	32		