



# REM Series

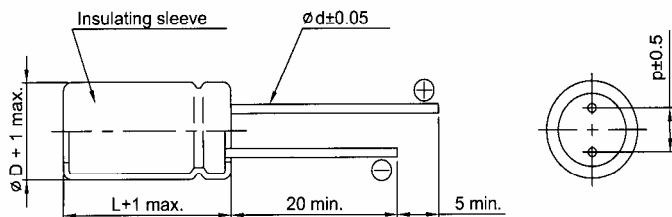
5mm, Radial Lead

- Ultra miniature Radial Type 5mm Height
- Designed for use in VCRs, car radios, Car stereos.

## Characteristics

<b>Voltage Range</b>	4 ~ 50 V							
<b>Capacitance Range</b>	0.1 ~ 220uF							
<b>Temperature Range</b>	-40 ~ + 105°C							
<b>Capacitance Tolerance</b>	+20% -20% (at 20°C, 120Hz)							
<b>Leakage Current</b>	I≤0.01CV or 3uA, whichever is greater (After 2 minutes)							
<b>Dissipation Factor</b>	Rated Voltage (V)	4V	6.3V	10V	16V	25V	35V	50V
	Dissipation Factor (tan δ) max	0.35	0.24	0.20	0.16	0.14	0.12	0.10
(at 20°C, 120Hz)								
<b>Stability at Low Temperature</b>	Impedance ration at 120Hz							
	Rated Voltage (V)	4V	6.3V	10V	16V	25V	35V	50V
	Z-25°C/Z 20°C	7	4	3	2	2	2	2
	Z-40°C/Z 20°C	15	8	6	4	4	3	3
<b>Load Life</b> (size 8x5mm is 85°C 1000hrs)	After the rated voltage has been applied for 1000 hours at 105°C	Capacitance change	Within ±20% of initial value					
		D.F. tanδ	200% of less of initial specified value					
		Leakage current	Initial specified value of less					
<b>Shelf Life</b> (size 8x5mm is 85°C 500hrs)	After storage for 500 hours at 105°C, with no voltage applied and being stabilized at +20°C, Capacitor shall meet the limit specified in load life.							

## Diagram of dimensions



<b>D φ</b>	3	4	5	6	8
<b>p</b>	1±0.3	1.5	2.0	2.5	3.5
<b>d φ</b>	0.4	0.45			

## Case Size of Standard Products & Maximum Ripple Current mA rms 105°C 120Hz

Cap. uF	4V		6.3V		10V		16V		25V		35V		50V	
	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.	Size	R.C.
0.1												→	4x5*	1.0
0.22												→	4x5*	2.0
0.33												→	4x5*	2.8
0.47												→	4x5*	4.0
1												→	4x5*	8.0
2.2												→	4x5*	10
3.3												→	4x5	17
4.7								→	4x5*	16	4x5	18	5x5	20
10						→	4x5*	23	4x5	27	5x5	30	6x5	33
22	4x5*	19	4x5*	28	4x5	28	5x5	37	5x5	42	6x5	46	6x5	48
33	4x5*	26	4x5	37	5x5	41	5x5	49	6x5	53	8x5	62		
47	4x5	34	5x5	45	5x5	45	6x5	58	6x5	60	8x5	80		
100	5x5	61	6x5	70	6x5	80	6x5	85	8x5	95				
220	6x5	82	6x5	90	8x5	95								

\* Also 3x5 is available, size 8x5 is 85°C only.

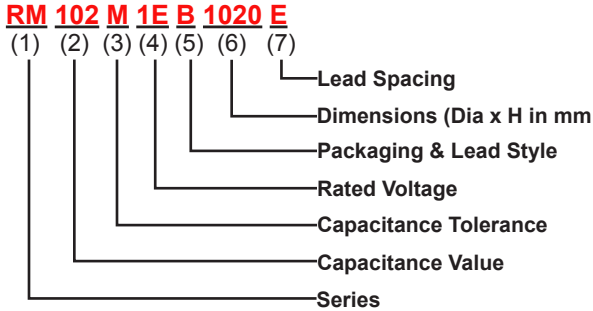
# ORDERING INFORMATION for Leaded Type



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>B</b>	Bulk: Standard Package
	<b>L</b>	Bulk: 4 -8ø Long Leads Formed to 5 mm Pitch
Snap-In	<b>1</b>	10-13ø Snap-in Cut 5.0mm
	<b>2</b>	16-13ø Snap-in Cut 5.0mm
	<b>3</b>	10-13ø Snap-in Cut 4.5mm
	<b>4</b>	16-18ø Snap-in Cut 4.5mm
	<b>5</b>	4-8ø Snap-in Cut 7.5mm
Form	<b>F</b>	4-8ø Forming Cut 6.5mm
	<b>G</b>	4-8ø Forming Cut 10.0mm
Straight Cut	<b>C</b>	4-18ø Straight Cut 4.0mm
	<b>6</b>	4-18ø Straight Cut 3.1mm
	<b>7</b>	4-18ø Straight Cut 5.0mm
	<b>8</b>	4-18ø Straight Cut 6.35mm
Ammo Tape (+) Leading	<b>A</b>	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	<b>T</b>	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		