

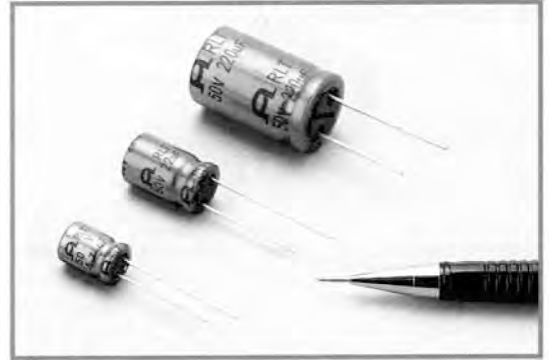


RLT SERIES

Normal Timing Circuit, Radial Leads

Features

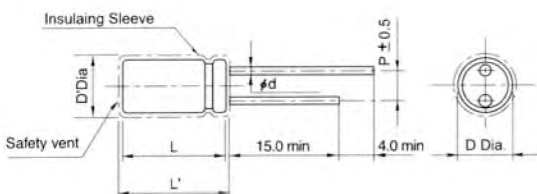
- For timing circuit, Radial
- Narrow capacitance tolerance($\pm 10\%$)
- Very low leakage current(0.001 CV)
- Excellent shelf life
- Load life of 2000 hours at 85°C



Specifications

Item	Performance Characteristics					
Operating temperature range	-40°C ~ +85°C					
Rated working voltage range	10V ~ 50V					
Nominal capacitance range	1 μ F ~ 2200 μ F, $\pm 10\%$ (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. $I \leq 0.001CV$ or 1μ A (2 min), Whichever is greater Where I =Leakage current(μ A) C=Nominal capacitance(μ F) V=Rated voltage(V)					
Tan δ (max., at 20°C, 120Hz)	W.V(V)	10	16	25	35	50
	Tan δ	0.17	0.13	0.10	0.10	0.08
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)	10	16	25	35	50
	Z-25°C/Z20°C	3	3	3	2	2
Load life	Z-40°C/Z20°C	6	6	6	4	4
	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 $\pm 10\%$ of the initial measured value				
	Tan δ	$\leq 150\%$ of the initial specified value				
Shelf life	Leakage current	\leq The initial specified value				
	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 $\pm 10\%$ of the initial measured value				
	Tan δ	$\leq 150\%$ of the initial specified value				
Leakage current	$\leq 200\%$ of the initial specified value					

Dimensions



Standard lead style

ϕ D	6.3	8.0	10.0	12.5	16.0	18.0
p	2.5	3.5	5.0		7.5	
ϕ d	0.5		0.6		0.8	

$D' = [D+0.5]$ Max.

$L' = [L+1.0]$ Max. at $D \leq 8.0$

$L' = [L+1.5]$ Max. at $D \geq 10.0$

RLT SERIES

■ Dimensions & Maximum permissible ripple current

 $\phi D \times L$ (mm)

Cap(μF)	w.v(V)	10(1A)		16(1C)		25(1E)		35(1V)		50(1H)	
		SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r	SIZE	I _r
1.0										6.3x11	17
2.2										6.3x11	27
3.3										6.3x11	44
4.7								6.3x11	45	8x11.5	50
10						6.3x11	60	8x11.5	80	10x12.5	100
22						8x11.5	120	10x12.5	135	10x16	170
33				8x11.5	150	10x12.5	155	10x16	160	10x20	210
47	8x11.5	175	10x12.5	190	10x16	210	10x20	220	12.5x20	320	
100	10x16	290	10x20	330	12.5x20	340	12.5x20	360	12.5x25	470	
220	10x20	480	12.5x20	545	12.5x25	550	16x25	600	16x31.5	750	
330	12.5x20	580	12.5x25	630	16x25	680	16x35.5	760	18x31.5	800	
470	12.5x25	780	16x25	700	16x31.5	850	18x40	900			
1000	16x31.5	1100	16x35.5	1150	18x40	1250					
2200	18x40	1250									

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

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		