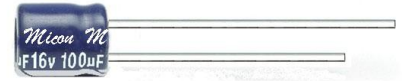


## SRD series

### Features

- ◆ 105°C Low leakage current , height 7 mm
- ◆ For detail specifications, please refer to Engineering Bulletin No.E122
- ◆ RoHS Compliant



### Specifications

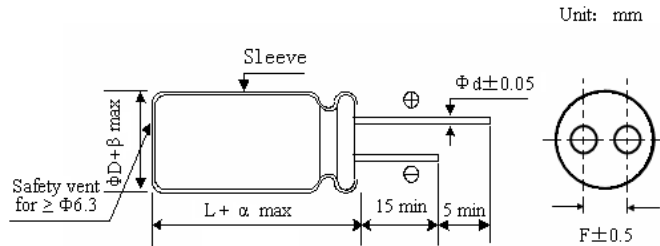
Item	Performance Characteristics																																				
Operating Temperature Range	-40~+105°C																																				
Rate Voltage Range	4~63 VDC																																				
Capacitance Range	0.1~100µF																																				
Capacitance Tolerance	±20% (120Hz, +20°C)																																				
Leakage current (+20°C, max.)	I ≤ 0.002 CV or 0.4 (µA) After 2 minute, whichever is greater measured with rated working voltage applied.																																				
Dissipation factor (tgδ)	<table border="1"> <thead> <tr> <th>Working Voltage(VDC)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> </tr> </thead> <tbody> <tr> <td>D.F(%)max</td> <td>25</td> <td>22</td> <td>20</td> <td>16</td> <td>14</td> <td>12</td> <td>10</td> <td>10</td> </tr> </tbody> </table>										Working Voltage(VDC)	4	6.3	10	16	25	35	50	63	D.F(%)max	25	22	20	16	14	12	10	10									
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(120Hz, +20°C)																																					
Low Temperature Characteristics (120Hz)	Impedance ratio max.																																				
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Z-40°C / Z+20°C	12	10	6	6	4	4	4	3																													
Load Life	Test conditions Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : Rated DC working voltage After test requirement at +20°C Capacitance change : ≤±20% of the initial measured value(4v : ≤±30%) Dissipation factor : ≤200% of the initial specified value Leakage current : ≤The initial specified value																																				
Shelf Life	Test conditions Duration time : 1000Hrs Ambient temperature : +105°C Applied voltage : None After test requirement at +20°C : Same limits as Load life. Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes																																				

### Multiplier for Ripple Current vs. Frequency

CAP(µA)\Frequency (Hz)	60(50)	120	400	1K	≥10K
0.1~10	0.65	1.0	1.20	1.30	1.50
10~100	0.8	1.0	1.10	1.15	1.20

# SRD series

## Diagram of Dimensions



$\Phi D$	4	5	6.3	8
F	$1.5 \pm 0.5$	$2.0 \pm 0.5$	$2.5 \pm 0.5$	$3.5 \pm 0.5$
$\Phi d$	0.45		0.5	

## Case Size

Voltage	4V		6.3V		10V		16V		25V	
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1										
0.22										
0.33										
0.47										
1.0										
2.2										
3.3										
4.7									4×7	19
10							4×7	27	5×7	29
22					4×7	36	4×7	40	6.3×7	44
33	4×7	33	4×7	41	5×7	44	5×7	50	6.3×7	55
47	4×7	39	5×7	49	6.3×7	54	6.3×7	62	8×7	74
100	6.3×7	59	6.3×7	75	8×7	90				

Voltage	35		50		63	
	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
0.1			4×7	3	4×7	3
0.22			4×7	5	4×7	5
0.33			4×7	6	4×7	6
0.47			4×7	7	4×7	7
1.0			4×7	10	4×7	10
2.2			4×7	16	5×7	19
3.3	4×7	18	4×7	20	6.3×7	29
4.7	5×7	21	6.3×7	24	6.3×7	36
10	5×7	32	8×7	40		
22	6.3×7	49				
33	8×7	67				
47						
100						

Ripple Current (mA,rms) at 105°C 120KHz