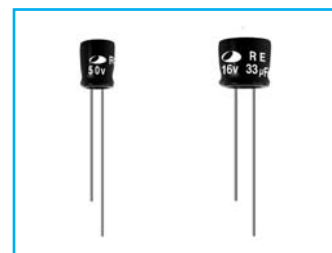
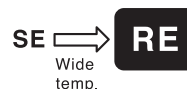


RE Wide Temperature Range, Height 5mm Series

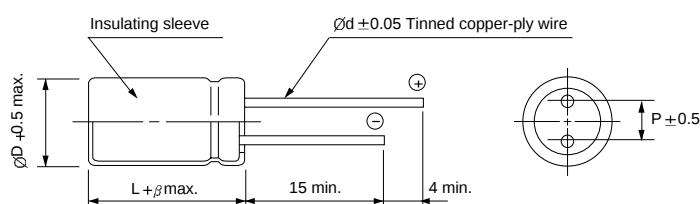
- Ultra miniature series with 5mm height
- Wide operating temperature range of -55 ~ +105°C
- Suitable to replace tantalum capacitors at low cost



Item	Characteristics							
Operating temperature range	-55 ~ +105℃							
Leakage current max.	I = 0.01CV or 3μA whichever is greater (after 2 minutes)							
Capacitance tolerance	±20% at 120Hz, 20℃							
Dissipation factor max. (at 120Hz, 20℃)	WV	4	6.3	10	16	25	35	50
	tanδ	0.35	0.27	0.23	0.19	0.15	0.13	0.11
Low temperature characteristics (Impedance ratio at 120Hz)	WV		4	6.3	10	16	25~50	
	Z-25℃/Z+20℃		7	3	3	2	2	
	Z-40℃/Z+20℃		12	8	5	4	3	
Load life (after application of the rated voltage for 1000 hours at 105℃)	Leakage current			Less than specified value				
	Capacitance change			Within ±25% of initial value				
	tanδ			Less than 200% of specified value				
Shelf life (at 105℃)	After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value.							

DRAWING

Unit : mm



ØD	3	4	5	6.3	8
P	1.0	1.5	2.0	2.5	2.5
Ød	0.4	0.45	0.45	0.45	0.45
β	1.0				1.5

DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

WV	4	6.3	10	16	25	35	50
0.1							4 × 5(3 × 5) 2.4(2.0)
0.15							4 × 5(3 × 5) 3.0(2.5)
0.22							4 × 5(3 × 5) 3.6(3.0)
0.33							4 × 5(3 × 5) 4.4(3.7)
0.47							4 × 5(3 × 5) 5.2(4.4)
0.68							4 × 5(3 × 5) 6.3(5.3)
1.0							4 × 5(3 × 5) 7.7(6.4)
1.5							4 × 5(3 × 5) 9.4(7.8)
2.2							4 × 5(3 × 5) 11(9.5)
3.3						4 × 5(3 × 5) 13(11)	4 × 5 14
4.7					4 × 5(3 × 5) 14(12)	4 × 5 15	5 × 5 19
6.8					4 × 5 17	5 × 5 21	5 × 5 23
10		4 × 5(3 × 5) 15(13)	4 × 5(3 × 5) 17(14)	4 × 5(3 × 5) 18(15)	5 × 5 24	5 × 5 26	6.3 × 5 33
15	4 × 5(3 × 5) 17(14)	4 × 5 19	4 × 5 21	5 × 5 26	5 × 5 29	6.3 × 5 37	6.3 × 5 40
22	4 × 5 20	4 × 5 23	5 × 5 29	5 × 5 32	6.3 × 5 42	6.3 × 5 45	8 × 5 58
33	4 × 5 25	5 × 5 32	5 × 5 35	6.3 × 5 45	6.3 × 5 51	8 × 5 65	8 × 5 71
47	4 × 5 29	5 × 5 39	6.3 × 5 49	6.3 × 5 54	8 × 5 72	8 × 5 77	
68	5 × 5 41	6.3 × 5 55	6.3 × 5 59	8 × 5 77	8 × 5 87		
100	5 × 5 50	6.3 × 5 66	8 × 5 85	8 × 5 93			
150	6.3 × 5 71	8 × 5 96	8 × 5 104				
220	8 × 5 102	8 × 5 116					

↑ Ripple current (mA rms) at 105°C, 120Hz
 ↑ Case size ØD x L (mm)