



$\tan\delta$ (max)	$\Phi 4 \sim \Phi 8 \times 6.2$	0.35	0.26	0.20	0.16	0.14	0.12	0.12	0.10	0.10
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- Stability At Low Temp.

Measurement frequency: 120Hz

Rated Voltage (V)		4	6.3	10	16	25	35	50~100
Impedance Ratio	$\Phi 4 \sim \Phi 8 \times 6.2$	Z-25°C / Z+20°C	7	4	3	2	2	2
		Z-40°C / Z+20°C	15	8	6	4	4	3

- Load Life

After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristics requirements listed below.

Capacitance Change	Within $\pm 20\%$ of initial value (Within $\pm 25\%$ of initial value for 4V)
Dissipation Factor	200% or less of initial specified value
Leakage Current	Initial specified value or less

- Shelf Life

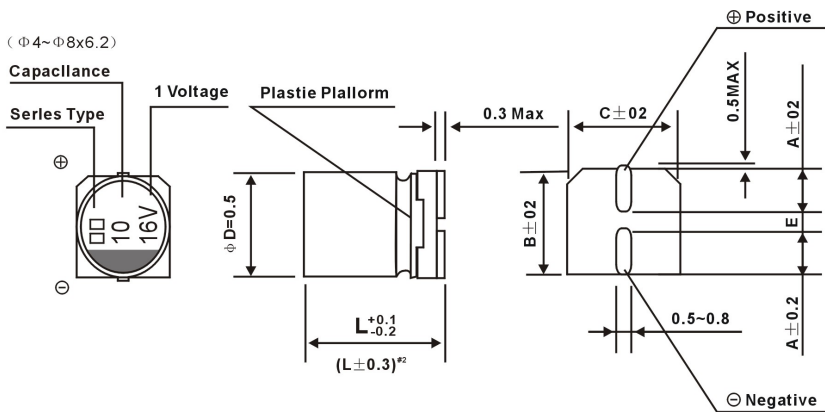
After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for load life characteristics listed above.

- Resistance to Soldering Heat

After reflow soldering and restored at room temperature, they meet the characteristics listed below.

Capacitance Change	Within $\pm 10\%$ of initial value
Tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

DRAWING



#1 Voltage mark for 6.3V is [6V]

#2 Applicable to 6.3 x 7.7

$\Phi D \times L$	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x6.2
A	1.8	2.1	2.4	2.4	3.3
B	4.3	5.3	6.6	6.6	8.3
C	4.3	5.3	6.6	6.6	8.3
$E \pm 0.2$	1.0	1.3	2.2	2.2	2.2
L	5.4	5.4	5.4	7.7	6.2

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Coefficient	Φ4~Φ8x6.2	0.1~68uF	0.70	1.00	1.17	1.36	1.50
		100~470uF	0.85	1.00	1.08	1.2	1.30

■ STANDARD SIZE

WV	Cap.(μF)	4		6.3		10		16		25	
		OG		OJ		1A		1C		1E	
4.7	4R7	--	--	--	--	--	--	--	--	--	--
10	100	--	--	--	--	--	--	4x5.4	25	5x5.4 (4x5.4)	28 (20)
15	150	--	--	--	--	--	--	4x5.4	28	5x5.4	34
22	220	--	--	4x5.4	31	5x5.4 (4x5.4)	35 (28)	5x5.4 (4x5.4)	39 (28)	6.3x5.4 (5x5.4)	52 (35)
33	330	4x5.4	26	5x5.4 (4x5.4)	39 (31)	5x5.4 (4x5.4)	43 (32)	6.3x5.4 (5x5.4)	57 (40)	6.3x5.4 (5x5.4)	63 (42)
47	470	4x5.4	34	5x5.4 (4x5.4)	47 (36)	6.3x5.4 (5x5.4)	59 (43)	6.3x5.4 (5x5.4)	68 (44)	6.3x5.4	68
56	560	4x5.4	39	5x5.4	46	6.3x5.4	57	6.3x5.4	74	6.3x5.4	82
68	680	5x5.4	45	6.3x5.4 (5x5.4)	62 (52)	6.3x5.4	72	6.3x5.4	80	6.3x5.4	94
100	101	5x5.4	61	6.3x5.4 (5x5.4)	71 (55)	6.3x5.4	76	6.3x5.4 8 X 6.2	86 200	6.3x7.7 8 x 6.2	130 91
150	151	6.3x5.4	74	6.3x5.4	78	6.3x5.4	88	6.3x7.7	135	6.3 x 7.7	130
220	221	6.3x5.4	82	6.3x5.4	95	6.3x7.7 8 X 6.2	150 250	(6.3x7.7) 8 X 6.2	(150) 135	--	--
330	331	6.3x7.7	150	6.3x5.4 6.3 X 7.7 8 X 6.2	150 300	--	--	--	--	--	--
470	471	6.3x7.7	150	6.3 X 7.7	150	--	--	--	--	--	--

WV	Cap.(μF)	35		50		63		100	
		1V		1H		1J		2A	
0.1	0R1	--	--	4x5.4	1.0	4x5.4	1.0	--	--
0.22	R22	--	--	4x5.4	2.3	4x5.4	2.3	--	--
0.33	R33	--	--	4x5.4	3.5	4x5.4	3.5	--	--
0.47	R47	--	--	4x5.4	5.0	4x5.4	5.0	--	--
1	010	--	--	4x5.4	10	4x5.4	10	4x5.4	10
1.5	1R5	--	--	4x5.4	12	4x5.4	12	6.3x5.4	15
2.2	2R2	--	--	4x5.4	15	4x5.4	15	6.3x5.4	20
3.3	3R3	--	--	4x5.4	18	5x5.4	20	6.3x7.7 (6.3x5.4) (8 X 6.2)	45 (28) (50)
4.7	4R7	--	--	5x5.4 (4x5.4)	23 (19)	6.3x5.4 (5x5.4)	30 (23)	6.3x7.7 (6.3x5.4) (8 X 6.2)	50 (30) (50)
10	100	5x5.4 (4x5.4)	30 (20)	6.3x5.4 (5x5.4)	34 (27)	6.3x7.7 (6.3x5.4)	55 (34)	(6.3x7.7) (8 X 6.2)	(50) (50)
22	220	6.3x5.4	54	6.3x5.4 (8 X 6.2)	60 (120)	6.3x7.7	70	--	--
33	330	6.3x5.4 8 X 6.2	60 130	6.3x7.7 (8 X 6.2)	85 (65)	6.3x7.7	85	--	--
47	470	6.3x5.4 8 X 6.2	70 165	6.3x7.7	90	--	--	--	--
56	560	6.3x7.7	80	6.3x7.7	110	--	--	--	--
68	680	6.3x7.7	110	--	--	--	--	--	--
100	101	6.3x7.7	120	--	--	--	--	--	--

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