

SPECIFICATIONS

Items	Performance												
Operating Temperature Range	-40°C ~ +85°C												
Capacitance Tolerance	±20% (at 120Hz, 20 )												
Leakage Current (at 20°C)	Case D55-H10	6.3-100V	I=0.01CV or 3μA, whichever is greater, after 2minutes at +20°C										
	Case K14-L17	6.3-100V	I=0.03CV or 4μA, whichever is greater, after 1minutes at +20°C										
	Case K14-L17	160-450V	I=0.04CV +100μA after 1minutes at +20°C										
Where I=leakage current C= rated capacitance in μF. V = rated DC working voltage in V.													
Dissipation Factor (Tan δ at 120Hz, 20°C)	Rated Voltage	6.3	10	16	25	35	50	63	100	160-250	400-450		
	Case D55-H10	0.35	0.30	0.26	0.16	0.14	0.12	0.12	0.12	-	-		
	Case K14-L17	0.38	0.34	0.30	0.26	0.22	0.18	0.14	0.10	0.20	0.25		
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.												
	Rated Voltage		6.3	10	16	25	35	50	63	100	160-250	400-450	
	Impedance Ratio	Z(-25°C) /Z(+20°C)	Case D55-H10	4	4	3	2	2	2	2	3	-	-
			Case K14-L17	-	5	4	2	3	2	2	2	3	6
		Z(-40°C) /Z(+20°C)	Case D55-H10	17	10	8	4	3	3	3	4	-	-
		Case K14-L17	-	12	10	5	4	3	3	3	6	10	
Load Life Test	Test Time	2000 Hrs											
	Capacitance Change	Within ±20% of initial value											
	Dissipation Factor	Less than 200% of specified value											
	Leakage Current	Within specified value											
* The above specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 2000 hrs at 85°C.													
Shelf Life Test	Test time: 1000 hrs; other items are the same as those for the load life test.												
Other Standards	JIS C 5101-18												

DIAGRAM OF DIMENSIONS

Fig 1

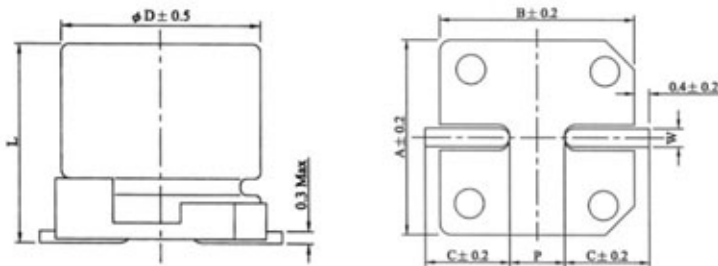
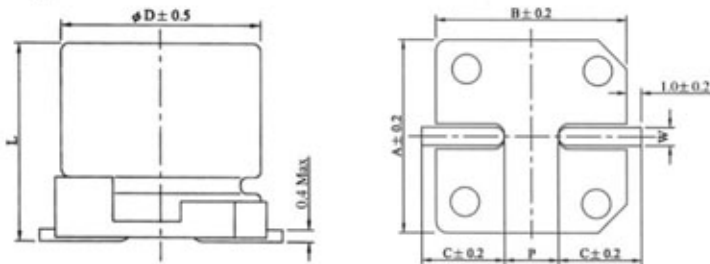


Fig 2



Unit: mm							
φ D	L	A	B	C	W	P±0.2	Fig No.
4	5.3±0.3	4.3	4.3	2.0	0.5 to 0.8	1.0	1
5	5.3±0.3	5.3	5.3	2.3	0.5 to 0.8	1.5	1
6.3	5.3±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	1
6.3	7.7±0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	1
8	10±0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	1
10	10±0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	1
12.5	13.5±0.5	12.8	12.8	4.9	1.1 to 1.4	4.6	2
12.5	16±0.5	12.8	12.8	4.9	1.1 to 1.4	4.6	2
16	16.5±0.5	16.3	16.3	5.8	1.8 to 2.2	6.0	2

## CE32 Type

 Dimension:  $\varphi D \times L$ (mm)

Ripple Current: mA/rms at 120 Hz, 85°C

## DIMENSION &amp; PERMISSIBLE RIPPLE CURRENT

$\mu F$	V.DC Contents	6.3V (0J)		10V (1A)		16V (1C)		25V (1E)		35V (1V)		50V (1H)	
		$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA
0.1	0R1											4×5.3	3
0.22	R22											4×5.3	5
0.33	R33											4×5.3	6
0.47	R47											4×5.3	7
1	010											4×5.3	10
2.2	2R2											4×5.3	15
3.3	3R3											4×5.3	15
4.7	4R7							4×5.3	19	4×5.3	18	4×5.3	18
10	100			4×5.3	26	4×5.3	26	4×5.3	24	4×5.3	24	5×5.3	30
22	220	4×5.3	30	4×5.3	26	4×5.3	26	5×5.3	41	5×5.3	41	6.3×5.3	47
33	330	4×5.3	30	5×5.3	30	5×5.3	37	5×5.3	47	6.3×5.3	54	6.3×7.7	70
47	470	4×5.3	33	6.3×5.3	44	5×5.3	44	6.3×5.3	60	6.3×5.3	64	6.3×7.7	85
100	101	5×5.3	55	6.3×5.3	70	6.3×5.3	70	6.3×7.7	120	6.3×7.7	120	8×10	190
220	221	6.3×5.3	88	6.3×7.7	130	6.3×7.7	130	8×10	260	8×10	260	10×10	320
330	331	6.3×7.7	135	8×10	270	8×10	270	8×10	300	10×10	360	12.5×13.5	600
470	471	8×10	280	8×10	280	8×10	280	10×10	400	12.5×13.5	600	12.5×16	740
1000	102	8×10	430	10×10	430	12.5×13.5	710	12.5×13.5	820	16×16.5	1100		
2200	222	12.5×13.5	890	12.5×13.5	960	16×16.5	1150	16×16.5	1450				
3300	332	12.5×16	1000	16×16.5	1300	16×16.5	1150						
4700	472	16×16.5	1400	16×16.5	1300								
6800	682	16×16.5	1700										

$\mu F$	V.DC Contents	63V (1J)		100V (2A)		160V (2C)		200V (2D)		250V (2E)		400V (2G)	
		$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA	$\varphi D \times L$	mA
0.1	0R1	4×5.3	1.3										
0.22	R22	4×5.3	3										
0.33	R33	4×5.3	4										
0.47	R47	4×5.3	5										
1	010	4×5.3	8										
2.2	2R2	4×5.3	12										
3.3	3R3	5×5.3	17										
4.7	4R7	5×5.3	20									12.5×13.5	120
10	100	6.3×5.3	32	8×10	90					12.5×13.5	150	12.5×13.5	120
22	220	6.3×7.7	60	8×10	90			12.5×13.5	240	12.5×13.5	150	16×16.5	140
33	330	6.3×7.7	60	10×10	120	12.5×13.5	240	12.5×16	310	12.5×16	240	16×16.5	140
47	470	8×10	130	10×10	120	12.5×16	370	16×16.5	340	16×16.5	340		
68	680	10×10	170	12.5×13.5	380	16×16.5	500	16×16.5	340				
100	101	12.5×13.5	380	12.5×13.5	380								
220	221	12.5×13.5	580	16×16.5	500								
330	331	12.5×16	720										
470	471	16×16.5	950										

$\mu F$	V.DC Contents	450V (2W)	
		$\varphi D \times L$	mA
4.7	4R7	12.5×13.5	120
10	100	12.5×16	130
22	220	16×16.5	140