

Chip Type, 105°C Use, Low Impedance Capacitors

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 105°C.



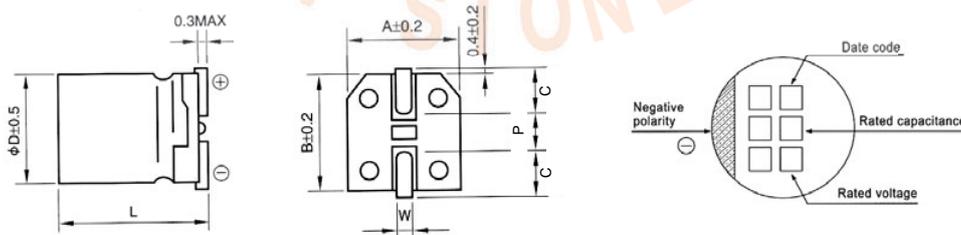
Marking color : Black print ($\phi 4 \times 5.3L - \phi 8 \times 6.5L$)
White print on a brown sleeve ($\phi 8 \times 10L \cdot \phi 10 \times 10L$)

■ SPECIFICATIONS

Item	Performance						
Category Temperature Range	-55°C~+105°C						
Capacitance Tolerance	±20% (20°C, 120Hz)						
Leakage Current (μA)	Less than 0.01CV or 3 whichever is larger (after 2 minutes) C : Rated capacitance (μF) ; V : Rated voltage (V) (20°C)						
Dissipation Factor (Tan δ at 120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	
	tan δ (max.)	0.28	0.24	0.20	0.16	0.14	
Low Temperature Characteristics (at 120Hz)	Rated voltage (V)	6.3	10	16	25	35	
	Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2	2
		Z-55°C/Z+20°C	8	5	4	3	3
Endurance (105°C) (Applied ripple current)	Test time	2000 hours (8×6.5 or less: 1000 hours)					
	Capacitance Change	Within ±25% of initial value					
	Dissipation Factor	200% or less of the initial specified value					
	Leakage Current	The initial specified value or less					
Shelf life (105°C)	Test time : 1000 hours; other items are the same as those for the endurance. Voltage application treatment : According to JIS C5101-1						
Coefficient of Frequency for Rated Ripple Current	Frequency (Hz)	120	1k	10k	100k		
	Rated voltage (V) 6.3 to 35	0.5	0.75	0.9	1.0		
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)						

■ OUTLINE DRAWING

Unit : mm



ϕD	L	A	B	C	W	P	Casing symbol
4	5.3 ± 0.2	4.3	4.3	2.0	0.5 to 0.8	1.0	D55
4	5.8 ± 0.3	4.3	4.3	2.0	0.5 to 0.8	1.0	D61
5	5.3 ± 0.2	5.3	5.3	2.3	0.5 to 0.8	1.5	E55
5	5.8 ± 0.3	5.3	5.3	2.3	0.5 to 0.8	1.5	E61
6.3	5.3 ± 0.2	6.6	6.6	2.7	0.5 to 0.8	2.0	F55
6.3	5.8 ± 0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F61
6.3	7.7 ± 0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F80
8	6.5 ± 0.3	8.4	8.4	3.4	0.5 to 0.8	2.3	G68
8	10 ± 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	G10
8	10.5 ± 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1	GA5
10	10 ± 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	H10
10	10.5 ± 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7	HA5

NOTE

Design, Specifications are subject to change without notice.
Ask factory for technical specifications before purchase and/or use.

■ STANDARD RATINGS

Rated voltage (V)	6.3			10			16			25			35		
	Case	Impedance	Rated ripple current	Case	ESR	Rated ripple current									
	ϕ D×L (mm)	Ω	mAms	ϕ D×L (mm)	Ω	mAms	ϕ D×L (mm)	Ω	mAms	ϕ D×L (mm)	Ω	mAms	ϕ D×L (mm)	Ω	mAms
4.7	—	—	—	—	—	—	—	—	—	4×5.3	3.20	65	4×5.3	3.20	65
10	—	—	—	4×5.3	3.20	65	4×5.3	3.20	65	4×5.8	1.80	80	5×5.3	1.50	110
	—	—	—	—	—	—	—	—	—	5×5.3	1.50	110	5×5.8	0.76	150
15	—	—	—	—	—	—	4×5.8	1.80	80	5×5.8	0.76	150	5×5.8	0.76	150
22	4×5.3	3.20	65	4×5.8	1.80	80	5×5.3	1.50	110	5×5.8	0.76	150	5×5.8	0.76	150
	4×5.8	1.80	80	5×5.3	1.50	110	5×5.8	0.76	150	6.3×5.3	0.85	170	6.3×5.3	0.85	170
33	5×5.3	1.50	110	5×5.3	1.50	110	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.3	0.85	170
	5×5.8	0.76	150	5×5.8	0.76	150	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230
47	5×5.3	1.50	110	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.8	0.44	230
	5×5.8	0.76	150	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280
68	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	8×6.5	0.34	280
	—	—	—	—	—	—	—	—	—	—	—	—	6.3×7.7	0.34	280
100	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×5.3	0.85	170	6.3×7.7	0.34	280	8×10	0.20	450
	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×5.8	0.44	230	8×6.5	0.34	280	8×10.5	0.17	450
	—	—	—	—	—	—	—	—	—	8×6.5	0.34	280	8×10.5	0.17	450
150	6.3×5.8	0.44	230	6.3×5.8	0.44	230	6.3×7.7	0.34	280	8×10	0.20	450	8×10.5	0.17	450
	—	—	—	—	—	—	8×6.5	0.34	280	8×10.5	0.17	450	10×10	0.10	670
220	6.3×5.8	0.44	230	6.3×7.7	0.34	280	6.3×7.7	0.34	280	8×10.5	0.17	450	8×10.5	0.17	450
	6.3×7.7	0.34	280	8×6.5	0.34	280	8×10	0.20	450	10×10	0.10	670	10×10	0.10	670
	—	—	—	8×10	0.20	450	—	—	—	—	—	—	—	—	—
330	6.3×7.7	0.34	280	8×10.5	0.17	450	8×10.5	0.17	450	8×10.5	0.17	450	10×10.5	0.09	670
	8×6.5	0.34	200	—	—	—	—	—	—	—	—	—	—	—	—
	8×10	0.20	450	10×10	0.10	670	10×10	0.10	670	10×10	0.10	670	—	—	—
470	8×10.5	0.17	450	8×10.5	0.17	450	8×10.5	0.17	450	10×10.5	0.09	670	—	—	—
	10×10	0.10	670	10×10	0.10	670	10×10	0.10	670	—	—	—	—	—	—
680	8×10.5	0.17	450	10×10.5	0.09	670	10×10.5	0.09	670	—	—	—	—	—	—
1000	8×10.5	0.17	450	10×10.5	0.09	670	—	—	—	—	—	—	—	—	—
	10×10	0.10	670	—	—	—	—	—	—	—	—	—	—	—	—
1500	10×10.5	0.09	670	—	—	—	—	—	—	—	—	—	—	—	—

(Note) Rated ripple current : 105°C, 100kHz : Impedance : 20°C, 100kHz