

## Chip Type, 105°C Use, Large Capacitance Capacitors

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



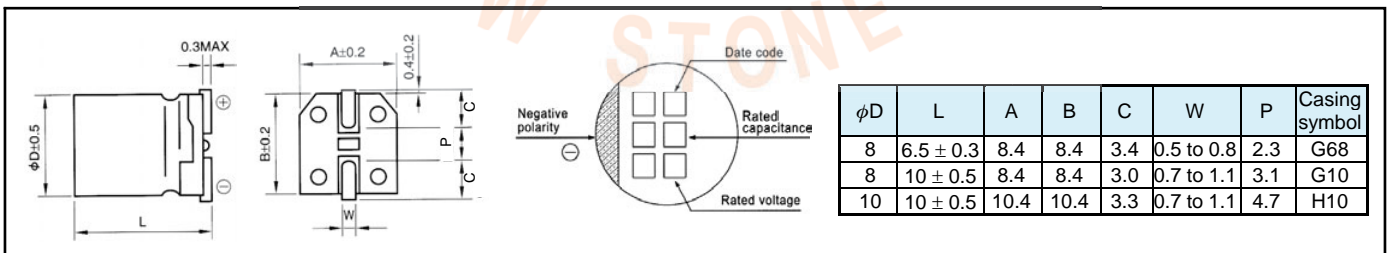
Marking color : Black print (φ8×6.5L)  
White print on a brown sleeve (φ8×10L · φ10×10L)

### ■ 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 (Tanδ at 120Hz, 20°C)	Rated voltage (V)	6.3	10	16	25	35	50	63	100				
	tan δ (max.)	0.30	0.24	0.22	0.16	0.13	0.12	0.11	0.10				
Low Temperature Characteristics (at 120Hz)	Rated voltage (V)	6.3	10	16	25	35	50	63	100				
	Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2	2	2	2	2			
Z-40°C/Z+20°C		8	5	4	3	3	3	3	3				
Endurance (105°C) (Applied ripple current)	Test time	2000 hours											
	Capacitance Change	Within ±20% 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	Rated voltage (V)	Frequency (Hz)				50 · 60		120		1k		10k · 100k	
						0.80		1		1.15		1.25	
	6.3 to 16				0.80		1		1.25		1.40		
	25 to 35				0.80		1		1.35		1.50		
	50 to 63				0.70		1		1.35		1.50		
Applicable standards	JIS C5101-1 1998, -18 1999 (IEC 60384-1 1992, -18 1993)												

### ■ OUTLINE DRAWING

Unit : mm



### ■ STANDARD RATINGS

Rated voltage (V)	6.3			10			16			25			35			50			63			100			
	Item	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current	Case	ESR	Rated ripple current			
		φD×L (mm)	Ω	mArms	φD×L (mm)	Ω	mArms	φD×L (mm)	Ω	mArms	φD×L (mm)	Ω	mArms	φD×L (mm)	Ω	mArms	φD×L (mm)	Ω	mArms	φD×L (mm)	Ω	mArms	φD×L (mm)	Ω	mArms
10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×10	16.6	67
22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	9.1	110	8×10	8.3	99	10×10	7.5	133	
33	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	6.5	110	8×10	6.0	178	10×10	5.5	160	10×10	5.0	133	
47	—	—	—	—	—	—	—	—	—	—	—	—	8×6.5	5.7	110	8×6.5	4.6	110	8×10	4.2	178	10×10	3.9	160	
100	—	—	—	8×6.5	4.3	110	8×6.5	3.6	110	8×10	2.7	178	10×10	2.2	324	8×10	2.0	178	10×10	2.0	324	—	—	—	
220	8×10	2.3	178	8×10	2.0	178	10×10	1.7	324	10×10	1.2	324	10×10	0.98	324	—	—	—	—	—	—	—	—	—	
330	8×10	1.5	178	10×10	1.3	324	10×10	1.1	324	10×10	0.80	324	—	—	—	—	—	—	—	—	—	—	—	—	
470	10×10	1.0	324	10×10	0.92	324	10×10	0.78	324	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1000	10×10	0.5	324	10×10	0.4	324	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

(Note) Rated ripple current : 105°C, 120Hz ; ESR : 20°C, 120Hz

#### NOTE

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