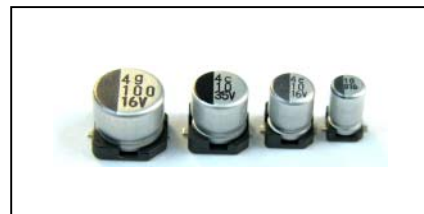


## Chip Type Standard Capacitors (height:5.5mm)

- Compatible with surface mounting for 5.5mm high capacitors.
- Supplied with carrier taping.
- Guarantees 2000 hours at 85 °C.



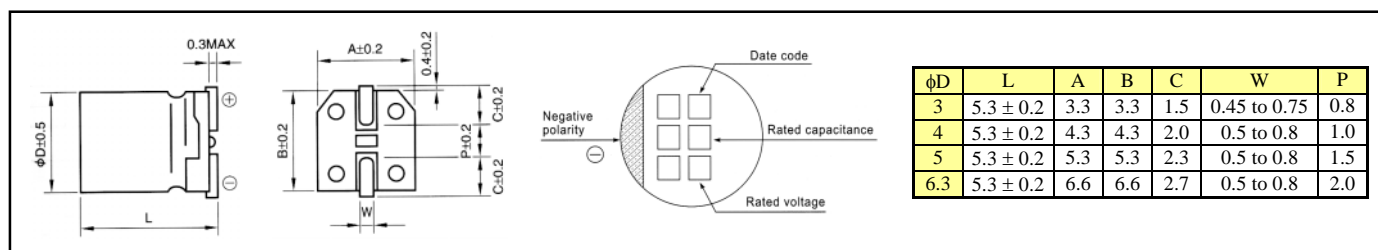
Marking color : Black print

### SPECIFICATIONS

Item	Performance									
Category temperature range ( °C )	-40~+85									
Tolerance at rated capacitance (%)	±20 (20 ~ 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 ~ 120Hz)									
Tangent of loss angle (tan δ)	Rated voltage (V)		4	6.3	10	16	25	35	50	
	tan δ (max.)	φ3	0.42	0.30	0.24	0.22	0.16	0.14	0.12	
		φ4 to φ6.3	0.42	0.28	0.24	0.20	0.14	0.12	0.10	(20 ~ 120Hz)
Characteristics at high and low temperature	Rated voltage (V)		4	6.3	10	16	25	35	50	
	Impedance ratio (max.)	φ3	Z-25 /Z+20	7	4	3	2	2	2	2
			Z-40 /Z+20	17	10	8	6	4	3	3
		φ4 to φ6.3	Z-25 /Z+20	7	3	3	2	2	2	2
	Z-40 /Z+20		15	8	5	4	3	3	3	
Endurance (85 °C) (Applied ripple current)	Test time		2000 hours (φ3 : 1000 hours)							
	Leakage current		The initial specified value or less							
	Percentage of capacitance change		Within ±20% of initial value (4WV : ±30%)							
	Tangent of the loss angle		200% or less of the initial specified value (4WV : 300%)							
Shelf life (85 °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)		50-60	120	1k	10k-100k				
	Rated voltage (V)									
	40 to 16		0.80	1	1.15	1.25				
	25 to 35		0.80	1	1.25	1.40				
	50		0.80	1	1.35	1.50				
Applicable standards	JIS C5101-1, -18 1998 (IEC 60384-1 1992, -18 1993)									

### OUTLINE DRAWING

Unit : mm



### STANDARD RATINGS

Rated voltage (V)	4			6.3			10			16			25			35			50			
	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 (mm)	Ω	mArms	φD (mm)	Ω	mArms	φD (mm)	Ω	mArms	φD (mm)	Ω	mArms	φD (mm)	Ω	mArms	φD (mm)	Ω	mArms	φD (mm)	Ω	mArms
0.1																				3×5.3	1990	1
																				4×5.3	1660	3
0.22																				3×5.3	905	2
																				4×5.3	754	5
0.33																				3×5.3	603	3
																				4×5.3	503	6
0.47																				3×5.3	424	4
																				4×5.3	353	7
1																				3×5.3	199	6
																				4×5.3	166	10
2.2																	3×5.3	106	8	4×5.3	75	15
																	3×5.3	70	9	4×5.3	50	19
3.3																						
4.7																						
10																						
22																						
33																						
47																						
100																						
220																						

(Note) Rated ripple current : 85 °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.