

## Chip Type 85°C Capacitors

- Compatible with surface mounting for 5.3mm, 7.7mm high capacitors.
- Supplied with carrier taping.
- Guarantees 2000 hours at 85°C.



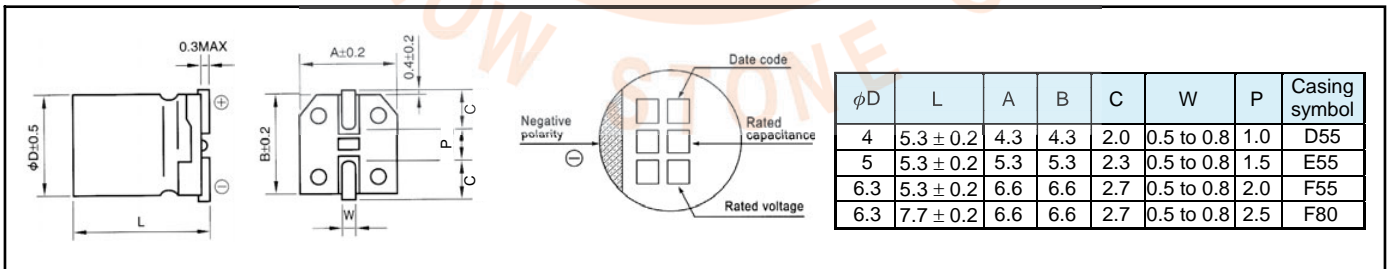
Marking color : Black print

### SPECIFICATIONS

Item	Performance						
Category Temperature Range	-40°C~+85°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
	tan δ (max.)	0.42	0.32	0.26	0.18	0.14	0.12
Low Temperature Characteristics (at 120Hz)	Rated voltage (V)	6.3	10	16	25	35	50
	Impedance ratio (max.)	Z-25°C/Z+20°C	4	3	2	2	2
Z-40°C/Z+20°C		8	8	5	5	4	4
Endurance (85°C) (Applied ripple current)	Test time	2000 hours					
	Capacitance Change	Within ±30% of initial value					
	Dissipation Factor	300% or less of the initial specified value					
	Leakage Current	The initial specified value or less					
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	Rated voltage (V)	Frequency (Hz)	50	120	1k	10k-100k	
		6.3 to 16	0.80	1	1.15	1.25	
	25 to 35	0.80	1	1.25	1.40		
	50	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		
	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
Rated capacitance (μF)	φD×L (mm)	Ω	mAms	φD×L (mm)	Ω	mAms	φD×L (mm)	Ω	mAms	φD×L (mm)	Ω	mAms	φD×L (mm)	Ω	mAms	φD×L (mm)	Ω	mAms
4.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	42	20
10	—	—	—	—	—	—	—	—	—	4×5.3	30	23	4×5.3	23	27	5×5.3	20	34
22	—	—	—	4×5.3	24	26	4×5.3	20	30	5×5.3	14	43	5×5.3	11	47	6.3×5.3	9.0	59
33	4×5.3	21	28	4×5.3	16	33	5×5.3	13	44	5×5.3	9.0	54	6.3×5.3	7.0	67	6.3×7.7	6.0	82
47	4×5.3	15	34	5×5.3	11	45	5×5.3	9.2	50	6.3×5.3	6.4	75	6.3×7.7	4.9	90	6.3×7.7	4.2	98
68	5×5.3	10	47	5×5.3	7.8	54	6.3×5.3	6.3	74	6.3×5.3	4.4	90	6.3×7.7	3.4	109	—	—	—
100	5×5.3	7.0	58	—	—	—	6.3×5.3	4.3	103	6.3×7.7	3.0	124	—	—	—	—	—	—
150	6.3×5.3	4.6	83	6.3×7.7	3.5	98	6.3×7.7	2.9	109	—	—	—	—	—	—	—	—	—
220	6.3×5.3	3.2	113	6.3×7.7	2.4	130	6.3×7.7	2.0	144	—	—	—	—	—	—	—	—	—
330	6.3×7.7	2.1	139	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

(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.