

Chip Type 105°C Standard Capacitors

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 1000 hours at 105°C.



Marking color : Black print

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
	tan δ (max.)	0.30	0.26	0.22	0.16	0.13	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	5	4	3	3	3
Endurance (105°C) (Applied ripple current)	Test time	1000 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	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	0.80	1	1.35	1.50		
Applicable standards	JIS C5101-1, -18 1998 (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
5	5.3 ± 0.2	5.3	5.3	2.3	0.5 to 0.8	1.5	E55
6.3	5.3 ± 0.2	6.6	6.6	2.7	0.5 to 0.8	2.0	F55
6.3	7.7 ± 0.3	6.6	6.6	2.7	0.5 to 0.8	2.0	F80

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
0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	905	3
0.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	603	4
0.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	424	5
1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	199	7
2.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	91	10
3.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	60	12
4.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4×5.3	42	17
10	—	—	—	4×5.3	43	15	4×5.3	36	16	5×5.3	27	21	5×5.3	22	23	6.3×5.3	20	26
22	4×5.3	23	21	5×5.3	20	25	5×5.3	17	28	6.3×5.3	12	36	6.3×5.3	10	50	—	—	—
33	5×5.3	15	30	5×5.3	13	31	6.3×5.3	11	40	6.3×5.3	8.0	44	—	—	—	6.3×7.7	6	60
47	5×5.3	11	36	6.3×5.3	9.2	43	6.3×5.3	7.8	47	6.3×5.3	6.4	70	—	—	—	6.3×7.7	4.2	63
100	6.3×5.3	5.0	61	6.3×5.3	4.3	60	6.3×5.3	3.6	60	6.3×7.7	2.7	91	6.3×7.7	2.2	84	—	—	—

(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.