

Chip Type Large Capacitance Capacitors

- Compatible with surface mounting.
- Supplied with carrier taping.
- Guarantees 2000 hours at 85 .



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

SPECIFICATIONS

Item	Performance									
Category temperature range ()	-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)									
Tangent of loss angle (tan δ)	Rated voltage (V)		6.3	10	16	25	35	50	63	100
	tan δ (max.)		0.28	0.24	0.20	0.14	0.12	0.10	0.10	0.10
Characteristics at high and low temperature	Rated voltage (V)		6.3	10	16	25	35	50	63	100
	Impedance ratio (max.)	Z-25 /Z+20	4	3	2	2	2	2	2	2
		Z-40 /Z+20	8	5	4	3	3	3	3	3
Endurance (85) (Applied ripple current)	Test time					2000 hours				
	Leakage current					The initial specified value or less				
	Percentage of capacitance change					Within ±20% of initial value				
	Tangent of the loss angle					200% or less of the initial specified value				
Shelf life (85)	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)		6.3 to 16		25 to 35		50 to 63		100	
			0.80		1		1.15		1.25	
			0.80		1		1.25		1.40	
			0.80		1		1.35		1.50	
Applicable standards	JIS C5101-1, -18 1998 (IEC 60384-1 1992, -18 1993)									

OUTLINE DRAWING

Unit : mm

Dimensions: φD±0.5, L, 0.3MAX, A±0.2, φ4±0.2, B±0.2, P±0.2, C±0.2, W.

Marking: Date code, Negative polarity, Rated capacitance, Rated voltage.

φD	L	A	B	C	W	P
8	6.5 ± 0.3	8.4	8.4	3.4	0.5 to 0.8	2.3
8	10 ± 0.5	8.4	8.4	3.0	0.7 to 1.1	3.1
10	10 ± 0.5	10.4	10.4	3.3	0.7 to 1.1	4.7

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 (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		
10																				8×10	16.6	94		
22														8×6.5	7.5	155	8×10	7.5	139	10×10	7.5	189		
33													8×6.5	6.0	155	8×6.5	5.0	155	8×10	5.0	139	10×10	5.0	189
47										8×6.5	4.9	155	8×6.5	4.2	155	8×10	3.5	252	10×10	3.5	226			
68																			10×10	2.4	226			
100				8×6.5	4.0	155	8×6.5	3.3	155	8×6.5	2.3	155	8×10	2.0	252	10×10	1.7	458	10×10	1.7	226			
220	8×6.5	2.1	155	8×6.5	1.8	155	8×10	1.5	252	8×10	1.1	252	10×10	0.91	458									
330	8×6.5	1.4	155	8×10	1.2	252	8×10	1.0	252	10×10	0.70	458												
470	8×10	0.99	252	10×10	0.85	458	8×10		252	10×10	0.46	458												
1000	10×10	0.46	458	10×10	0.46	458																		

(Note) Rated ripple current : 85 , 120Hz ; ESR : 20 , 120Hz

NOTE

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