

**Aluminum Electrolytic Type / Surface Mount Type**
**RoHS compliance**

# CN Series

**Bi-polar**
**5.4mm Height**


- 105°C 1,000hours
- Solvent proof (within 2 minutes)

**Specifications**

Items	Condition	Specifications						
Rated voltage (V)	—	6.3	10	16	25	35	50	
Surge voltage (V)	Room temperature	8.0	13	20	32	44	63	
Category temperature range (°C)	—	-40 to +105						
Capacitance tolerance (%)	120Hz/20°C	M : ±20						
Dissipation Factor (tan δ)	tanδ (max) 120Hz/20°C	0.32	0.26	0.24	0.22	0.20	0.20	
Leakage current (LC)	μA/after 2 minutes (max)	0.03CV + 6μA						
Impedance ratio at low temperature	Based on the value at 120Hz, +20°C	-25°C Z/Z <sub>20°C</sub>	4	3	2	2	2	2
		-40°C Z/Z <sub>20°C</sub>	10	8	6	4	3	3
Endurance	250hours×4(alternately), 105°C, rated voltage applied (With the rated ripple current)	△C/C	Within ±25% of the initial value					
		tanδ	Less than 200% of the specified value					
		LC	Less than the specified value					

**Marking, Dimensions**

Series Symbol: CN

Rated Capacitance: 10

Rated Voltage: 16V

Black print on the case top

D <sub>±0.5</sub>	L <sub>±0.4</sub>	W <sub>±0.2</sub>	H <sub>±0.2</sub>	C <sub>±0.2</sub>	R	P <sub>±0.2</sub>
4	5.4	4.3	4.3	5.1	0.5 to 0.8	1.0
5	5.4	5.3	5.3	6.1	0.5 to 0.8	1.3
6.3	5.4	6.6	6.6	7.3	0.5 to 0.8	2.2
6.3	7.7	6.6	6.6	7.3	0.5 to 0.8	2.2

**Ripple Current Frequency Coefficient**

Frequency:F(Hz)		100≤F<1k	1k≤F<10k	10k≤F<100k	100k≤F
Capacitance:C(μF)	C≤4.7	1.00	1.30	1.50	1.80
	4.7<C≤33	1.00	1.20	1.30	1.45
	33<C	1.00	1.10	1.20	1.30

**Size, Rated Ripple Current**

μF \ V	6.3	10	16	25	35	50
1.0						4×5.4 10
2.2					4×5.4 8.4	5×5.4 15
3.3				4×5.4 10	5×5.4 16	5×5.4 18
4.7			4×5.4 12	5×5.4 16	5×5.4 18	6.3×5.4 20
10		4×5.4 17	5×5.4 23	6.3×5.4 28	6.3×5.4 27	6.3×5.4 25
22		5×5.4 28	6.3×5.4 37	6.3×5.4 35	6.3×5.4 30	6.3×7.7 35
33	6.3×5.4 37	6.3×5.4 33	6.3×5.4 49	6.3×7.7 50	6.3×7.7 35	
47	6.3×5.4 45	6.3×5.4 41	6.3×7.7 55			
100	6.3×7.7 55	6.3×7.7 60				

Case size:φD(mm)

 Rated ripple current  
 mA Arms(120Hz, 105°C)