

Aluminum Electrolytic Type / Surface Mount Type

RoHS compliance

VN Series

Bi-polar

5.4mm Height



- 105°C 2,000hours
- 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)	—	-55 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 _{20°C}	4	3	2	2	2
		-55°C Z/Z _{20°C}	10	8	6	4	3
Endurance	500hours×4(alternately) 105°C, rated voltage applied (With the rated ripple current)	ΔC/C	Within ±30% of the initial value				
		tanδ	Less than 200% of the specified value				
		LC	Less than the specified value				

Marking, Dimensions

Series Symbol

VN

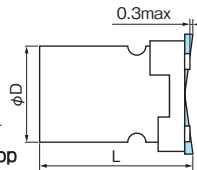
Rated Capacitance

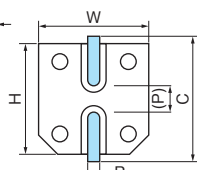
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Rated Voltage

16V

Black print on the case top





(P)reference size

D ^{±0.5}	L ^{±0.4}	W ^{±0.2}	H ^{±0.2}	C ^{±0.2}	R	P ^{±0.2}
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 82	6.3×7.7 60				

Case size:φD(mm)

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