

AVN Series

Features

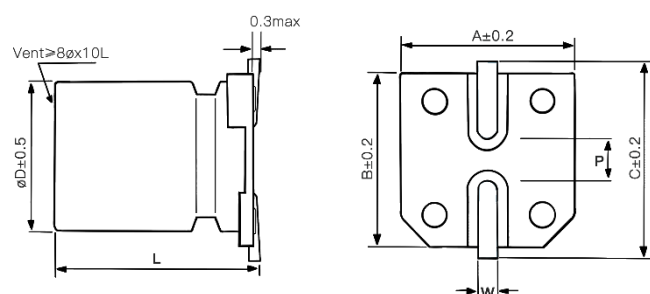
- $\phi 4 \sim \phi 12.5$, 105°C, 2000 hours assured
- Bi-polarized capacitors
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- RoHS 2.0 compliant, 247 REACH&SVHC compliant
- AEC-Q200 compliant, Please contact Jarson for more details, test data, information.



Marking color: Black

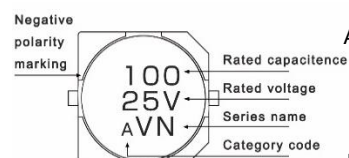
Specifications										
Category temp. range	-55℃ to +105℃									
Capacitance tolerance	±20% (120 Hz / +20 ℃)									
Leakage current	I ≤ 0.03 CV or 10 μA whichever is greater (after 2 minutes)									
Tan δ	Please see the attached characteristics list									
Characteristics at low temperature	Rated voltage (V)	6.3	10	16	25	35	50	63	100	Impedance ratio at 120 Hz
	Z (-25 ℃) / Z (+20 ℃)	5	4	3	2	2	2	2	2	
	Z (-55 ℃) / Z (+20 ℃)	10	8	6	4	3	3	3	3	
Endurance	After applying rated working voltage for 2000 hours at +105 ℃ ± 2 ℃, and then being stabilized at +20 ℃, capacitors shall meet the following limits.									
	Capacitance change	Within ±30% of the initial value								
	Dissipation factor (tan δ)	Less than 300% of the initial value								
	Leakage current	Within the initial limit								
Shelf life	After storage for 1000 h at +105 ℃ ± 2 ℃ with no voltage applied and then being stabilized at +20 ℃, capacitors shall meet the limits specified in endurance.									
Resistance to soldering heat	After reflow soldering and then being stabilized at +20 ℃, capacitors shall meet the following limits.									
	Capacitance change	Within ±10% of the initial value								
	Dissipation factor (tan δ)	Within the initial limit								
	Leakage current	Within the initial limit								
Frequency correction factor for ripple current	Frequency	50Hz		120Hz		1kHz		10kHz≤		
	C ≤ 470μF	0.80		1.00		1.30		1.50		
	C > 470μF	0.85		1.00		1.13		1.15		

Dimensions:



Dimensions						Unit: mm
ϕD	L	A	B	C	W	P±0.2
4	5.7±0.3	4.3	4.3	5.1	0.5~0.8	1.0
5	5.7±0.3	5.3	5.3	6.0	0.5~0.8	1.4
6.3	5.7±0.3	6.6	6.6	7.3	0.5~0.8	2.0
6.3	7.7±0.3	6.6	6.6	7.3	0.5~0.8	2.0
8	10.5±0.5	8.3	8.3	9.1	0.7~1.3	3.1
10	10.5±0.5	10.3	10.3	11.1	0.7~1.3	4.4
12.5	13.5±0.5	13.0	13.0	14.0	1.1~1.4	4.4
12.5	16±0.5	13.0	13.0	14.0	1.1~1.4	4.4

Marking:



Part Number System:

Aluminum E-Caps	VN series	16V	22 μF	±20 %	6.3 ϕ x 5.7L
A	VN	1C	220	M	0606
Product category	Series name	Rated voltage	Capacitance	Capacitance tolerance	Case Size

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification		Part Number③	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	tan δ②		MPQ (pcs/reel)
6.3	22	5	5.7	28	0.32	AVN0J220M0506	1000
	33	6.3	5.7	37	0.32	AVN0J330M0606	1000
	47	6.3	5.7	45	0.32	AVN0J470M0606	1000
	100	6.3	7.7	82	0.32	AVN0J101M0607	1000
	220	8	10.5	120	0.32	AVN0J221M0810	500
	330	10	10.5	170	0.32	AVN0J331M1010	500
	470	12.5	13.5	270	0.32	AVN0J471M1313	200
	1000	12.5	16	500	0.32	AVN0J102M1316	200
10	10	4	5.7	17	0.26	AVN1A100M0406	2000
	22	6.3	5.7	33	0.26	AVN1A220M0606	1000
	33	6.3	5.7	41	0.26	AVN1A330M0606	1000
	47	6.3	7.7	60	0.26	AVN1A470M0607	1000
	100	8	10.5	100	0.26	AVN1A101M0810	500
	220	10	10.5	150	0.26	AVN1A221M1010	500
	330	10	10.5	170	0.26	AVN1A331M1010	500
	470	12.5	13.5	340	0.26	AVN1A471M1313	200
16	4.7	4	5.7	12	0.24	AVN1C4R7M0406	2000
	10	5	5.7	23	0.24	AVN1C100M0506	1000
	22	6.3	5.7	37	0.24	AVN1C220M0606	1000
	33	6.3	5.7	49	0.24	AVN1C330M0606	1000
	47	6.3	7.7	55	0.24	AVN1C470M0607	1000
	100	8	10.5	100	0.24	AVN1C101M0810	500
	220	10	10.5	150	0.24	AVN1C221M1010	500
	330	12.5	13.5	310	0.24	AVN1C331M1313	200
25	3.3	5	5.7	12	0.22	AVN1E3R3M0506	1000
	4.7	5	5.7	16	0.22	AVN1E4R7M0506	1000
	10	6.3	5.7	27	0.22	AVN1E100M0606	1000
	22	6.3	7.7	35	0.22	AVN1E220M0607	1000
	33	8	10.5	50	0.22	AVN1E330M0810	500
	47	8	10.5	60	0.22	AVN1E470M0810	500
	100	10	10.5	110	0.22	AVN1E101M1010	500
	220	12.5	13.5	270	0.22	AVN1E221M1313	200

① Rated ripple current (120Hz / +105℃) ② tan δ (120Hz / +20℃) ③ For automotive, the Part Number is appended with "a" at the end.

※ Please refer to the page of reflow conditions for reflow profile.

Characteristics list

Rated voltage (V)	Capacitance (±20%) (μF)	Case size		Specification		Part Number③	Taping&Reel
		øD (mm)	L (mm)	Rated ripple current① (mA rms)	tan δ②		MPQ (pcs/reel)
35	2.2	4	5.7	8	0.20	AVN1V2R2M0406	2000
	3.3	5	5.7	16	0.20	AVN1V3R3M0506	1000
	4.7	5	5.7	18	0.20	AVN1V4R7M0506	1000
	10	6.3	5.7	29	0.20	AVN1V100M0606	1000
	22	6.3	7.7	35	0.20	AVN1V220M0607	1000
	33	8	10.5	50	0.20	AVN1V330M0810	500
	47	10	10.5	70	0.20	AVN1V470M1010	500
	100	12.5	13.5	180	0.20	AVN1V101M1313	200
50	1	4	5.7	8	0.20	AVN1H010M0406	2000
	2.2	5	5.7	13	0.20	AVN1H2R2M0506	1000
	3.3	5	5.7	17	0.20	AVN1H3R3M0506	1000
	4.7	6.3	5.7	20	0.20	AVN1H4R7M0606	1000
	10	6.3	7.7	30	0.20	AVN1H100M0607	1000
	22	8	10.5	40	0.20	AVN1H220M0810	500
	33	10	10.5	60	0.20	AVN1H330M1010	500
	47	12.5	13.5	130	0.20	AVN1H470M1313	200
	100	12.5	16	230	0.20	AVN1H101M1316	200
63	33	10	10.5	65	0.20	AVN1J330M1010	500
	47	12.5	13.5	140	0.20	AVN1J470M1313	200
100	22	12.5	13.5	100	0.20	AVN2A220M1313	200
	33	12.5	16	150	0.20	AVN2A330M1316	200

① Rated ripple current (120Hz / +105°C) ② tan δ (120Hz / +20°C) ③ For automotive, the Part Number is appended with "a" at the end.

※ Please refer to the page of reflow conditions for reflow profile.