

AVD Series

Features

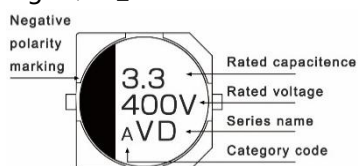
- $\phi 6.3 \sim \phi 12.5$, 105°C, 3000 hours assured
- Designed for High Voltage DC160~450V
- Designed for reflow soldering
- Designed for surface mounting on high-density PCB
- RoHS 2.0 compliant, 247 REACH&SVHC compliant



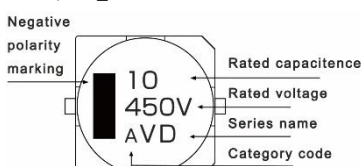
Marking color: Black

Specifications							
Category temp. range	-40℃ to +105℃						
Capacitance tolerance	±20% (120 Hz / +20 ℃)						
Leakage current	I ≤ 0.04 CV +100μA, after 5 minutes						
Tan δ	Please see the attached characteristics list						
Characteristics at low temperature	Rated voltage (V)	160	200	250	400	450	Impedance ratio at 120 Hz
	Z (-25 ℃) / Z (+20 ℃)	3	3	3	6	6	
	Z (-40 ℃) / Z (+20 ℃)	6	6	6	10	10	
Endurance	After applying rated working voltage for 3000 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≤		
	Correction Factor	0.8	1.0	1.25	1.4		

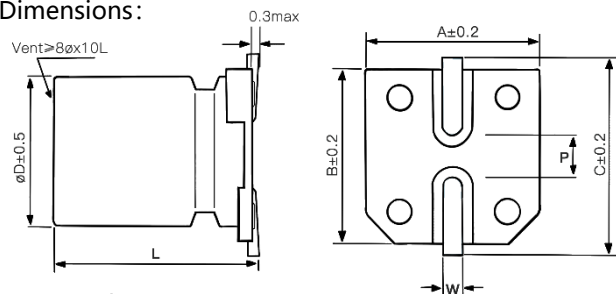
Marking: $\phi D \leq 10mm$



$\phi D \geq 12.5mm$



Dimensions:



Part Number System:

Dimensions							Unit: mm
ϕD	L	A	B	C	W	P ± 0.2	
6.3	10.5 ± 0.5	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	
8	13 ± 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	
10	13 ± 0.5	10.3	10.3	11.1	0.7~1.3	4.4	
12.5	13.5 ± 0.8	13.0	13.0	14.0	1.1~1.4	4.4	

SMD Aluminum E-Caps

VD series

400V

4.7 μF

$\pm 20\%$

8 ϕ x10.5L

A

VD

2G

4R7

M

0810

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)
160	6.8	6.3	10.5	24	0.20	AVD2C6R8M0610	500
	8.2	8	10.5	32	0.20	AVD2C8R2M0810	500
	10	8	10.5	39	0.20	AVD2C100M0810	500
	15	10	10.5	50	0.20	AVD2C150M1010	500
	22	10	13	50	0.20	AVD2C220M1013	400
	33	10	13	57	0.20	AVD2C330M1013	400
		12.5	13.5	95	0.20	AVD2C330M1313	200
200	4.7	8	10.5	22	0.20	AVD2D4R7M0810	500
	5.6	8	10.5	24	0.20	AVD2D5R6M0810	500
	6.8	8	10.5	27	0.20	AVD2D6R8M0810	500
	8.2	8	10.5	30	0.20	AVD2D8R2M0810	500
	10	8	13	34	0.20	AVD2D100M0813	400
	15	10	10.5	48	0.20	AVD2D150M1010	500
	22	12.5	13.5	80	0.20	AVD2D220M1313	200
250	1	6.3	10.5	9	0.25	AVD2E010M0610	500
	2.2	6.3	10.5	14	0.25	AVD2E2R2M0610	500
	3.3	6.3	10.5	16	0.25	AVD2E3R3M0610	500
	4.7	8	10.5	23	0.25	AVD2E4R7M0810	500
	5.6	8	10.5	25	0.25	AVD2E5R6M0810	500
	6.8	8	10.5	27	0.25	AVD2E6R8M0810	500
	8.2	10	10.5	33	0.25	AVD2E8R2M1010	500
	10	10	10.5	41	0.25	AVD2E100M1010	500
	15	10	13	60	0.25	AVD2E150M1013	400
		12.5	13.5	70	0.25	AVD2E150M1313	200
	22	12.5	13.5	105	0.25	AVD2E220M1313	200
400	1	6.3	10.5	8	0.25	AVD2G010M0610	500
	2.2	6.3	10.5	12	0.25	AVD2G2R2M0610	500
		8	10.5	15	0.25	AVD2G2R2M0810	500
	3.3	8	10.5	18	0.25	AVD2G3R3M0810	500
	4.7	8	10.5	25	0.25	AVD2G4R7M0810	500
		8	13	30	0.25	AVD2G4R7M0813	400
		10	10.5	30	0.25	AVD2G4R7M1010	500
	5.6	8	13	34	0.25	AVD2G5R6M0813	400
		10	10.5	34	0.25	AVD2G5R6M1010	500
	6.8	10	10.5	40	0.25	AVD2G6R8M1010	500
	8.2	10	13	45	0.25	AVD2G8R2M1013	400
	10	10	13	45	0.25	AVD2G100M1013	400
		12.5	13.5	50	0.25	AVD2G100M1313	200
450	1	8	10.5	13	0.30	AVD2W010M0810	500
	2.2	8	10.5	18	0.30	AVD2W2R2M0810	500
	3.3	8	13	22	0.30	AVD2W3R3M0813	400
	4.7	10	10.5	32	0.30	AVD2W4R7M1010	500
	5.6	10	13	43	0.30	AVD2W5R6M1013	400
	6.8	10	13	48	0.30	AVD2W6R8M1013	400
	8.2	12.5	13.5	60	0.30	AVD2W8R2M1313	200
	10	12.5	13.5	75	0.30	AVD2W100M1313	200

① Rated ripple current (120Hz / +105°C) ② tan δ (120Hz / +20°C)

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