



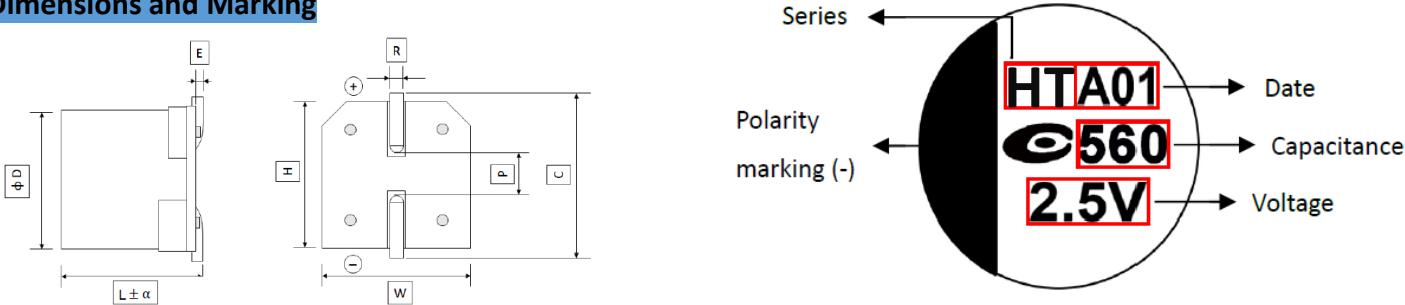
AVHT Series Standard

- Standard SMD type
- Rated Voltage:2.5~80Vdc
- Endurance 2000hrs at 125°C
- Suitable for DC-DC converters, voltage regulators and decoupling applications
- RoHS Compliant

Specification

Category Temperature Range	-55~+125°C		Rated Voltage Range	2.5 to 80Vdc
Rated Capacitance Range	22 to 820 (μF)		Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage X 1.15 (at 105°C)		Dissipation Factor	0.12 max. (at 20°C 120Hz)
Leakage Current	Shall not exceed values shown in standard ratings. (at 20°C after 2 mins.)			
Endurance	125°C, 2000hrs, rated voltage applied			
	Appearance	No significant damage		
	Capacitance Change	≤ ±20% of the initial value		
	DF(tanδ)	≤ 200% of the initial specified value		
	ESR	≤ 200% of the initial specified value		
	Leakage current	≤ The initial specified value		
Damp Heat (Steady State)	60°C, 90 to 95% RH, 1000hrs, voltage applied			
	Appearance	No significant damage		
	Capacitance Change	≤ ±20% of the initial value		
	DF(tanδ)	≤ 200% of the initial specified value		
	ESR	≤ 200% of the initial specified value		
	Leakage current	≤ The initial specified value		
Surge Voltage	1,000 cycles and each one includes charge with surge voltage specified at 105°C for 0.5min through a protective resistor (R=1kΩ) and discharge for 5.5min.			
	Appearance	No significant damage		
	Capacitance Change	≤ ±20% of the initial value		
	DF(tanδ)	≤ 200% of the initial specified value		
	ESR	≤ 200% of the initial specified value		
	Leakage current	≤ The initial specified value		

Dimensions and Marking



Size code	$\phi D \pm 0.5 \text{ max}$ (mm)	L (mm)	α (mm)	E (mm)	$W \pm 0.2$ (mm)	$H \pm 0.2$ (mm)	$C \pm 0.2$ (mm)	R (mm)	$P \pm 0.3$ (mm)
0645	6.3	4.5	-0.2~+0.1	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0606	6.3	5.8	±0.2	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0608	6.3	7.5	±0.5	0.00~0.20	6.6	6.6	7.3	0.5~0.8	2.1
0807	8	6.8	±0.2	0.00~0.20	8.3	8.3	9	0.8~1.1	2.9
0810	8	9.7	±0.3	0.00~0.20	8.3	8.3	9	0.8~1.1	2.9
0812	8	12	±0.5	0.00~0.20	8.3	8.3	9	0.8~1.1	3.2
1010	10	10.2	±0.3	0.00~0.20	10.3	10.3	11	0.8~1.1	4.6
1012	10	12.3	±0.2	0.00~0.20	10.3	10.3	11	0.8~1.1	4.6



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Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/20°C, 100k to300kHz)	Rated Ripple Current (mArms/ 105°C /100kHz)	Rated Ripple Current (mArms/ 125°C /100kHz)	Part No.
2.5 (2.9)	330	0645	700	17	2300	920	2R5AVHT331M0645
	560	0606	700	10	3000	1200	2R5AVHT561M0606
	820	0608	410	8	4500	1800	2R5AVHT821M0608
6.3 (7.2)	220	0606	277	15	2500	1000	6R3AVHT221M0606
	330	0606	416	22	3150	945	6R3AVHT331M0606
	330	0608	416	20	3000	900	6R3AVHT331M0608
	470	0807	592	10	4300	1720	6R3AVHT471M0807
16 (18.4)	220	0608	704	16	2800	1120	160AVHT221M0608
	220	0807	704	22	2600	1040	160AVHT221M0807
	270	0608	864	15	3000	1200	160AVHT271M0608
	560	1010	1792	12	4500	1350	160AVHT561M1010
25 (28.8)	47	0606	235	30	1800	720	250AVHT470M0606
	47	0645	588	45	1600	640	250AVHT470M0645
	56	0606	280	35	1400	560	250AVHT560M0606
	100	0608	500	24	2200	880	250AVHT101M0608
	220	0608	1100	24	2200	880	250AVHT221M0608
	220	0810	1100	18	3000	1200	250AVHT221M0810
	330	0810	1650	18	3000	1200	250AVHT331M0810
35 (40.3)	47	0606	329	35	1600	640	350AVHT470M0606
	100	0608	700	35	1800	720	350AVHT101M0608
	220	0812	1540	25	3000	1200	350AVHT221M0812
50 (57.5)	220	1012	2200	17	3500	1400	500AVHT221M1012
63 (72.5)	22	0810	277	30	2400	960	630AVHT220M0810
80 (92)	47	1012	752	28	3100	1240	800AVHT470M1012