

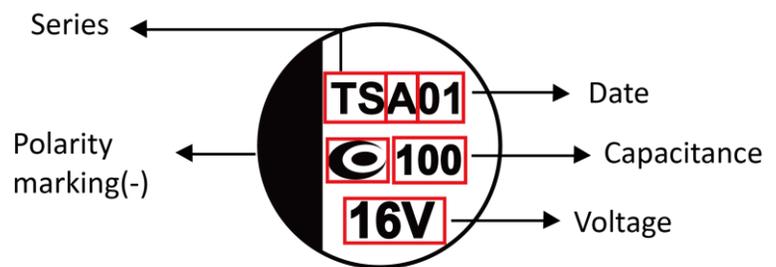
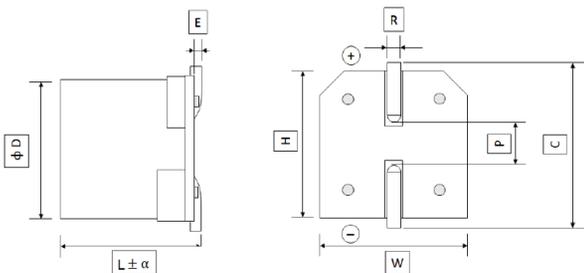
AVTS Series High temperature

- Standard SMD type
- Rated Voltage: 16~25Vdc
- Endurance 1000hrs 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	16 to 25 Vdc
Rated Capacitance Range	100 to 330 (μF)	Capacitance Tolerance	±20% (M)
Surge Voltage	Rated voltage X 1.15 (at 125°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	ψD±0.5max (mm)	L (mm)	α (mm)	E (mm)	W±0.2 (mm)	H±0.2 (mm)	C±0.2 (mm)	R (mm)	P±0.3 (mm)
0506	5	5.8	±0.2	0.00~0.20	5.3	5.3	6	0.5~0.8	1.4
0606	6.3	5.8	±0.2	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

AVTS Series **Standard**

Standard Ratings

WV/Vdc (SV)	Cap (μF)	Size Code	Leakage Current (μA)	ESR (mΩmax/20°C, 100k to 300kHz)	Rated Ripple Current (mArms/ 105°C /100kHz)	Rated Ripple Current (mArms/ 125°C /100kHz)	Part No.
16 (18.4)	100	0506	200	26	2,200	880	160AVTS101M0506C
	180	0606	288	22	2,300	920	160AVTS331M0807C
	270	0807	432	22	2,800	1,120	160AVTS181M0606C
	330	0807	528	22	3,300	1,320	160AVTS271M0807C
25 (28.8)	270	0812	675	16	4,300	1,720	250AVTS271M0812C