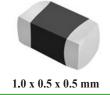
SMD Multilayer Chip Varistor

AMCV-0805

RoHS Compliant



> FEATURES:

- SMD type, small size suitable for high density mounting
- Excellent clamping ratio and strong capability of voltage surge suppression
- Excellent solderability (Ni, Sn plating)

> APPLICATIONS:

- Transient voltage protection and voltage surge suppression for LED lighting
- Suitable for LCD-TV, STB, Switch, Router, PLC, Security System, smart meters, mobile phones
- Suppressing Induced / switching over-voltage caused by lightning and power
- Protecting DC-DC Module, I/O ports, IC driver

> STANDARD SPECIFICATIONS:

Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Storage Temperature: $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ and RH 70% (Max.)

Part Number		Vorking Itage	Varistor Voltage	Max. Cl Volt	1 -	Rated Sing Trans	_	Typical Capacitance
Test Condition	<20 DC	0μA AC RMS	@1mA DC	8/20µs	ESD	Energy 10/1000μs	Peak Current 8/20µs	@0.5V _{rms} , 1MHz
Units	Volts	Volts	Volts	Volts	Volts	Joules	Amps	pF
Symbol	$V_{ m WDC}$	V_{WAC}	V_{B}	$V_{\rm C}^{*1}$	$V_{\rm C}^{*2}$	E_{T}	I_P	С
ACMV-0805-5R5-C180	5.5	4.0	10.0-14.0	18	23	0.005	3	18
ACMV-0805-180-C101	18.0	12.7	22.0-28.0	40	48	0.05	20	100
ACMV-0805-260-C800	26.0	18.4	31.0-38.0	58	70	0.05	20	80
ACMV-0805-300-C500	30.0	21.3	37.0-46.0	65	78	0.05	15	50

*1: Vc, Maximum peak voltage across the varistor measured at a specified pulse current and waveform.

Energy Rating Pulse & Waveform 0.00-0.05 Joule 1A, 8/20µs 0.10 Joule 2A, 8/20µs 0.20-0.50 Joule 5A, 8/20µs

*2: Vc, Maximum peak voltage across the varistor measured at 30ns after initiation of pulse on IEC61000-4-2 30A/8KV.

Test Conditions

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

a. Ambient Temperature: 20±15°C
b. Relative Humidity: 65±20%
c. Air Pressure: 86 kPa to 106 kPa

Items	Test Methods and Remarks
Varistor Voltage at 1mA DC (V _B)	Measuring current: 1mA DC Duration: 0.2 to 2 sec
Capacitance (C)	Measure source: $0.5 V_{RMS}$ Test frequency: 1MHz.
Leakage Current (I _L)	Measuring voltage: Maximum DC working voltage
Clamping Voltage (V _C)	Measuring source: 8/20us waveform, ESD waveform



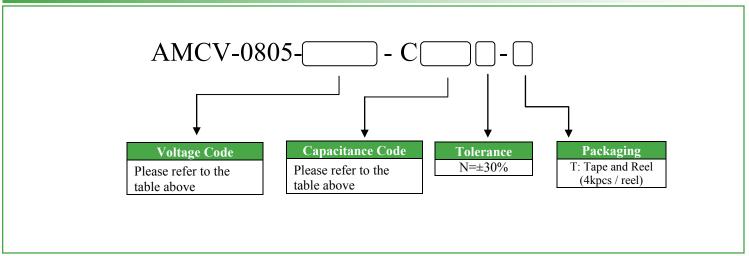
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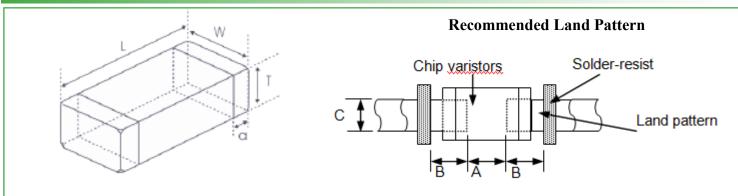




○ OPTIONS AND PART IDENTIFICATION:



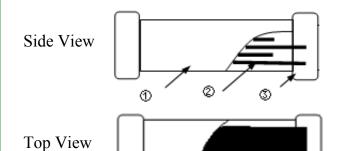
OUTLINE DIMENSION:



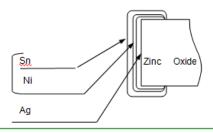
L	\mathbf{W}	T	a
2.0±0.2	1.25±0.2	0.85±0.2	0.5±0.3

A	В	C
0.80~1.20	0.80~1.20	0.90~1.60

Materials



	Part Name	Material
1	Base Material	ZnO
2	Internal Conductor	Ag-Pd
3	Terminal Electrode	Ag (Inner layer) Ni-Sn (Outer layer)



Dimension: mm

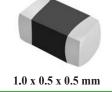
ABRACON IS ISO 9001:2008 CERTIFIED



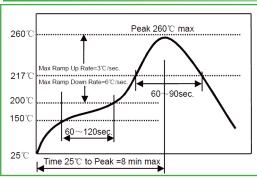
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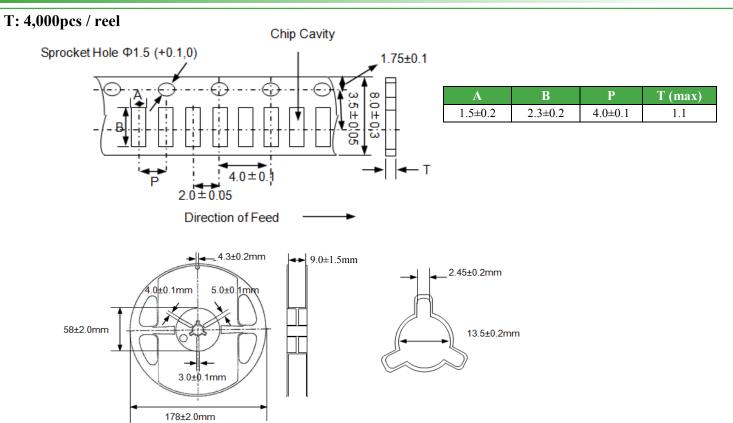


REFLOW PROFILE:



Preheat Condition	150 to 200 °C; 60 to 120 sec.
Allowed time above 217 °C	60 to 90 sec.
Max temperature	260 °C
Max time at max temperature	10 sec.
Solder paste	Sn/3.0Ag/0.5Cu
Allowed Reflow time	2x max.

TAPE & REEL:



Storage Conditions

- a. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity Package must be stored at 40°Cor less and 70% RH or less.
- b. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust of harmful gas (e.g. HCI, sulfurous gas of H₂S).
- Packaging material may be deformed if package are stored where they are exposed to heat of direct sunlight.
- d. Solderability shall be guaranteed for 6 months from the date of delivery on condition that they are stored at the environment specified in a. The parts that are stored more than 6 months shall be checked solderability before use.

 Dimension: mm

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