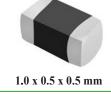
SMD Multilayer Chip Varistor

AMCV-0805

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)

RoHS Compliant



> 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°C ~ +125°C

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

Part Number		Vorking Itage	Varistor Voltage	Max. Cl Volt		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 _{WDC}	V _{WAC}	V _B	V_{c}^{*1}	V_{c}^{*2}	E _T	I _P	С
AMCV-0805-5R5-C180	5.5	4.0	10.0-14.0	18	23	0.005	3	18
AMCV-0805-180-C101	18.0	12.7	22.0-28.0	40	48	0.05	20	100
AMCV-0805-260-C800	26.0	18.4	31.0-38.0	58	70	0.05	20	80
AMCV-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

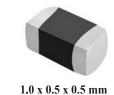
Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- 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			



SMD Multilayer Chip Varistor

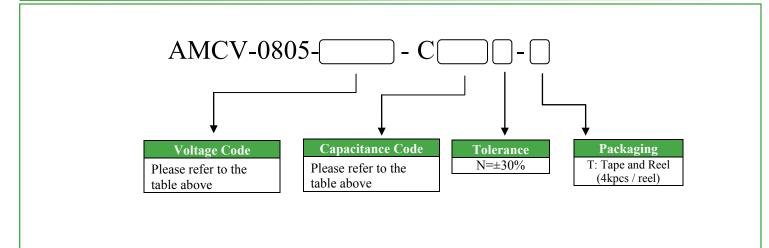


RoHS

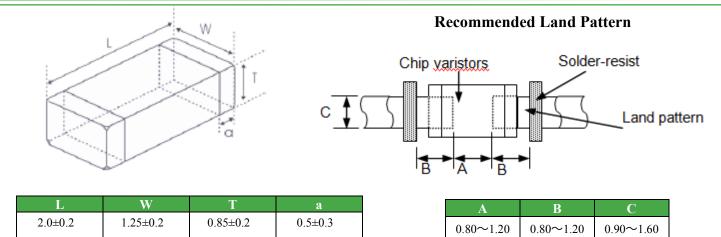
Compliant

AMCV-0805

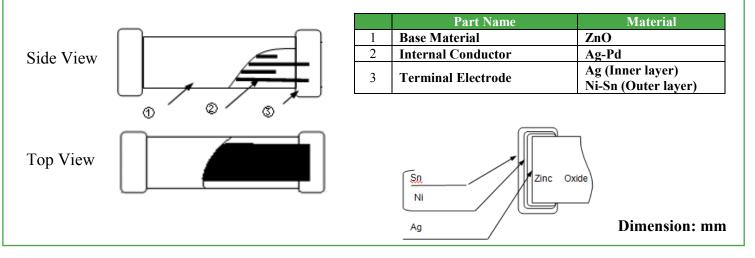
OPTIONS AND PART IDENTIFICATION:



OUTLINE DIMENSION:



Materials



ABRACON IS ISO 9001:2008 CERTIFIED

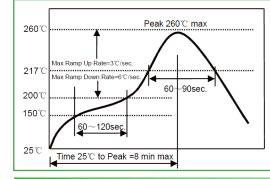


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SMD Multilayer Chip Varistor

AMCV-0805

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.		

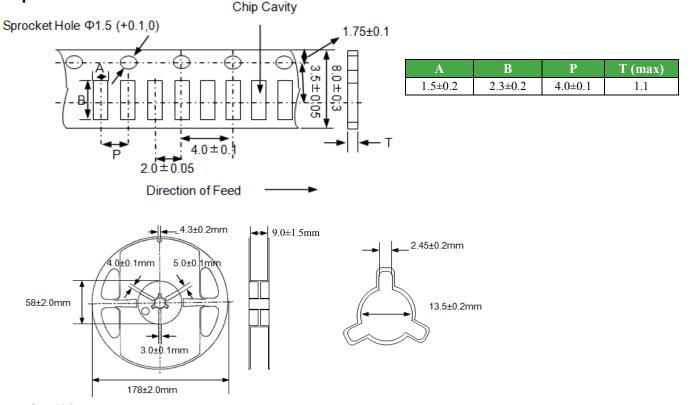
RoHS

Compliant

TAPE & REEL:

 \triangleright

T: 4,000pcs / 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.
- The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust of b. 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. c.
- 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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1.0 x 0.5 x 0.5 mm

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