SMD Multilayer Chip Varistor

AMCV-1206H

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)

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

RoHS

• Protecting DC-DC Module, I/O ports, IC driver

STANDARD SPECIFICATIONS:

Operating Temperature: -55°C ~ +125°C

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

Part Number	Max. Working Voltage		Varistor Voltage	Max. Clamping Voltage		Rated Single Pulse Transient		Typical Capacitance
Test Condition	< DC	20μA AC RMS	@1mA DC	8/20µs	ESD	Energy 10/1000µs	Peak Current 8/20µs	@1V _{rms} , 1kHz
Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps	pF
Symbol	V _{WDC}	V_{WAC}	$V_{\rm B}$	V _C	I _C	E _T	Ip	C _P
AMCV-1206H-5R5	5.5	4.0	12.0 [10.0-14.0]	18	5.0	0.7	300	2400
AMCV-1206H-090	9	6.4	14.0 [12.0-16.0]	20	5.0	0.7	300	2000
AMCV-1206H-120	12	8.5	16.0 [13.0-19.0]	25	5.0	0.7	300	1600
AMCV-1206H-140	14	10.0	19.0 [16.0-22.0]	30	5.0	0.7	300	1500
AMCV-1206H-180	18	12.7	25.0 [22.0-28.0]	40	5.0	0.7	300	1300
AMCV-1206H-220	22	15.6	30.0 [26.0-34.0]	45	5.0	0.7	300	1100
AMCV-1206H-260	26	18.4	35.0 [31.0-38.0]	58	5.0	0.7	250	900
AMCV-1206H-300	30	21.3	42.0 [37.0-46.0]	65	5.0	0.7	250	800
AMCV-1206H-380	38	30.0	50.0 [46.0-54.0]	75	5.0	1.0	250	500
AMCV-1206H-480	48	34.1	60.0 [54.0-67.0]	100	5.0	1.0	250	300
AMCV-1206H-560	56	40.0	68.0 [61.0-75.0]	120	5.0	1.0	250	250
AMCV-1206H-600	60	46.0	76.0 [69.0-83.0]	130	5.0	1.0	250	200
AMCV-1206H-650	65	50.0	82.0 [73.0-91.0]	140	5.0	1.2	250	160
AMCV-1206H-750	75	55.0	94.0 [85.0-103.0]	160	5.0	1.2	250	140
AMCV-1206H-850	85	60.0	100.0 [90.0-110.0]	170	5.0	1.2	250	120
AMCV-1206H-101	100	75.0	120.0 [108.0-132.0]	200	5.0	1.2	250	80

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: 1.0 V _{RMS} Test frequency: 1kHz.				
Clamping Voltage (V _C)	Measuring source: 8/20us waveform				



Visit <u>www.abracon.com</u> for Terms & Conditions of Sale **Revised: 11.22.12** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 fax 949-546-8001 | www.abracon.com

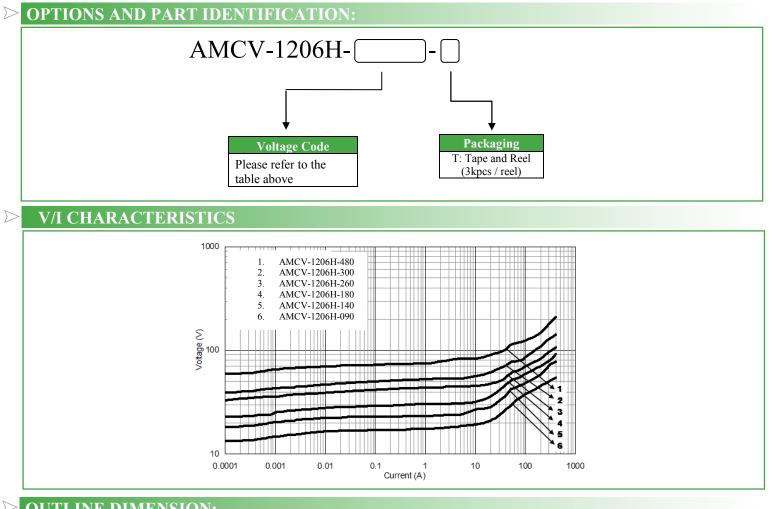


SMD Multilayer Chip Varistor

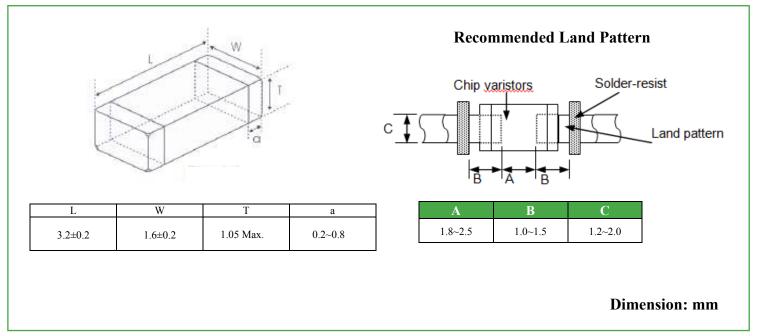
AMCV-1206H



RoHS Compliant



OUTLINE DIMENSION:







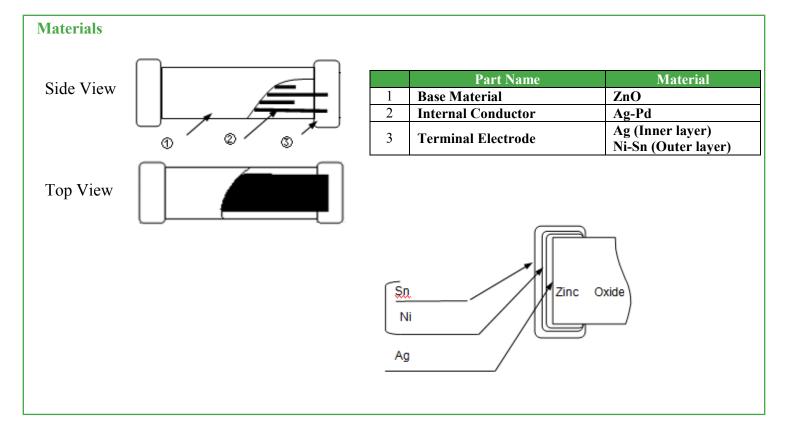
SMD Multilayer Chip Varistor

AMCV-1206H

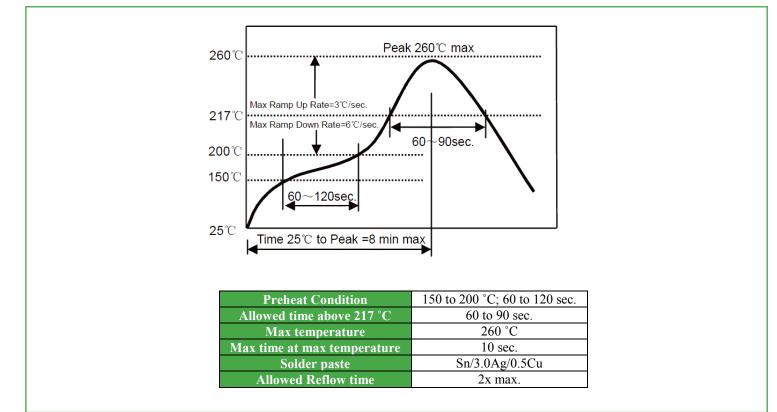


RoHS

Compliant



REFLOW PROFILE:

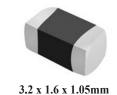






Visit <u>www.abracon.com</u> for Terms & Conditions of Sale **Revised: 11.22.12** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 fax 949-546-8001 | www.abracon.com

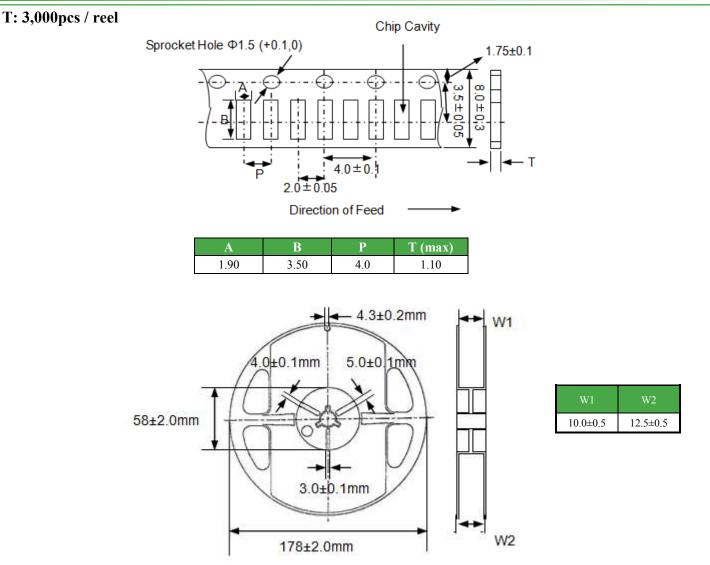
AMCV-1206H



RoHS

Compliant

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).
- c. 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 **1.3**. The parts that are stored more than 6 months shall be checked solderability before use.

Dimension: mm

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS ISO 9001:2008 CERTIFIED



Visit <u>www.abracon.com</u> for Terms & Conditions of Sale **Revised: 11.22.12** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 fax 949-546-8001 | www.abracon.com