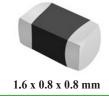
SMD Multilayer Chip Varistor

AMCV-0603LC

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°C ~ +125°C

Storage Temperature: $-10^{\circ}C \sim +40^{\circ}C$ 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
ACMV-0603LC-140-C100	14.0	10.0	16.0-22.0	30	39	0.005	2	10
ACMV-0603LC-140-C120	14.0	10.0	16.0-22.0	30	39	0.005	2	12
ACMV-0603LC-180-C050	18.0	12.7	22.0-28.0	40	48	0.003	1	5
ACMV-0603LC-180-C100	18.0	12.7	22.0-28.0	40	48	0.005	2	10
ACMV-0603LC-180-C120	18.0	12.7	22.0-28.0	40	48	0.005	2	12
ACMV-0603LC-260-C030	26.0	18.4	31.0-38.0	58	70	0.003	1	3
ACMV-0603LC-260-C100	26.0	18.4	31.0-38.0	58	70	0.005	2	10
ACMV-0603LC-260-C120	26.0	18.4	31.0-38.0	58	70	0.005	2	12

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

Energy Rating Pulse & Waveform 1A, 8/20µs

0.00-0.05 Joule 0.10 Joule

2A, 8/20µs 5A, 8/20µs 0.20-0.50 Joule

*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			



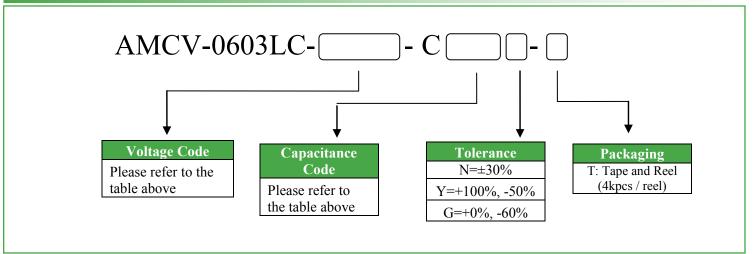
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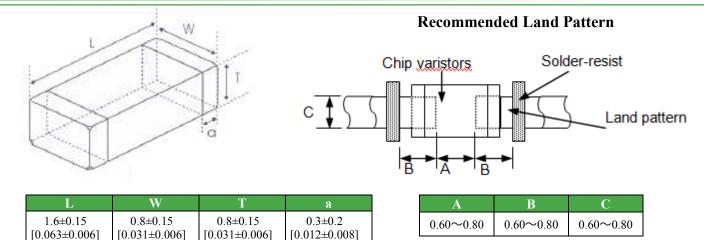
RoHS Compliant



OPTIONS AND PART IDENTIFICATION:

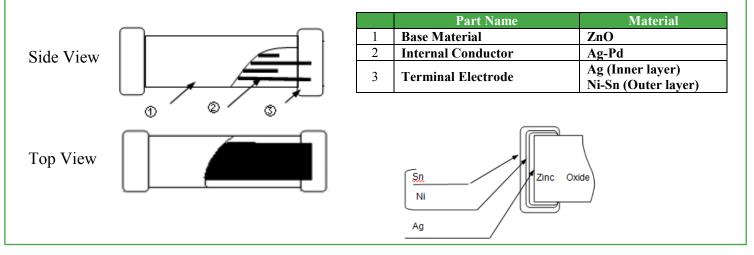


OUTLINE DIMENSION:



Materials

Dimension: mm [inch]



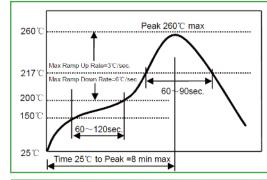


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SMD Multilayer Chip Varistor

AMCV-0603LC





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:

T: 4,000pcs / reel

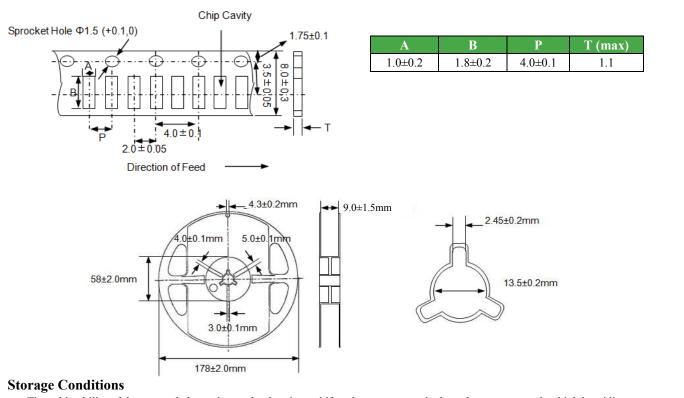
Packing

ABRACON IS

ISO 9001:2008

CERTIFIED

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- 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.

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.



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