



**THE DATASHEET OF  
ACML-0201-241-T**



# SMT Multilayer Chip Bead



ACML-0201 Series

Request Samples



Check Inventory



0.6 x 0.3 x 0.3 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Features

- Internal silver printed layers and magnetically shielded to minimize crosstalk.
- Substantial EMI suppression over a wide frequency range.
- Excellent solderability and heat resistance

## Applications

- Noise suppression for computers and peripheral devices, DVD cameras, LCD TVs, communication equipment, OA equipment, etc.
- Reduces noise in ultra-high speed signaling circuits as well.

## Electrical Specifications

Part Number	Impedance	Tolerance	DC Resistance	Rated Current
	100MHz/50mV		Max	Max
Units	$\Omega$	%	m $\Omega$	mA
Symbol	Z		DCR	Ir
ACML-0201-600	0.13	$\pm 25$	0.40	200
ACML-0201-800	0.27	$\pm 25$	0.60	200
ACML-0201-121	0.30	$\pm 25$	0.80	200
ACML-0201-241	0.40	$\pm 25$	1.00	200
ACML-0201-471	0.47	$\pm 25$	1.40	200
ACML-0201-601	0.62	$\pm 25$	1.70	200

### Test Conditions and equipments

**Z:** High Accuracy RF Impedance/Material Analyzer -E4991A, 100MHz, -20dBm or 50mV

**DCR:** High Accuracy Milliohmmeter –HP4338B

**Ir:** Electric Power Supply, Electric Current Meter, Thermometer.  $\Delta T \leq 20^\circ\text{C}$

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

- a. Ambient Temperature:  $20 \pm 15^\circ\text{C}$
- b. Relative Humidity:  $65\% \pm 20\%$
- c. Air Pressure: 86 KPa to 106 KPa

### Visual Examination

- a. Inspection Equipment: Microscope, 20X magnification

ACML-0201 Series is RoHS Compliant and Pb free

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

Storage Temperature (on PCB):  $-55^\circ\text{C} \sim +125^\circ\text{C}$

Storage Temperature (in original packaging):  $-10^\circ\text{C} \sim +40^\circ\text{C}$ , 70 RH maximum.



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# SMT Multilayer Chip Bead



**ACML-0201 Series**

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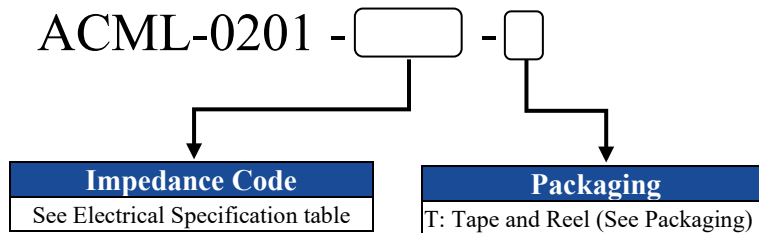


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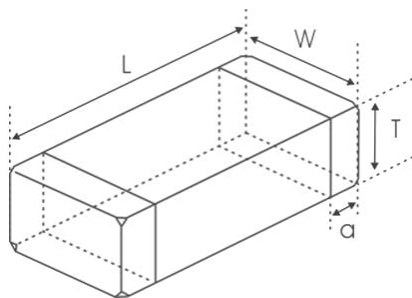


**0.6 x 0.3 x 0.3 mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

## Part Identification

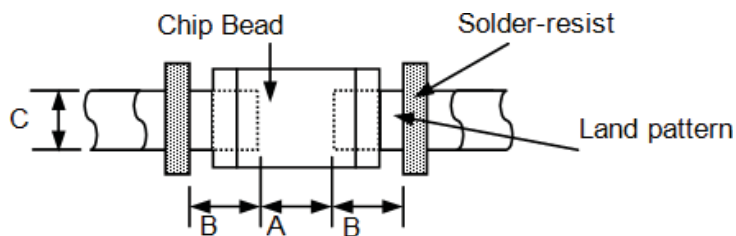


## Mechanical Specifications



Series	L	W	T	a
ACML-0201	0.6±0.05 [0.024±0.002]	0.3±0.05 [0.012±0.002]	0.3±0.05 [0.012±0.002]	0.15±0.05 [0.006±0.002]

Dimensions: mm[inches]



A	B	C
0.2~0.3	0.2~0.3	0.3~0.35

Dimensions: mm

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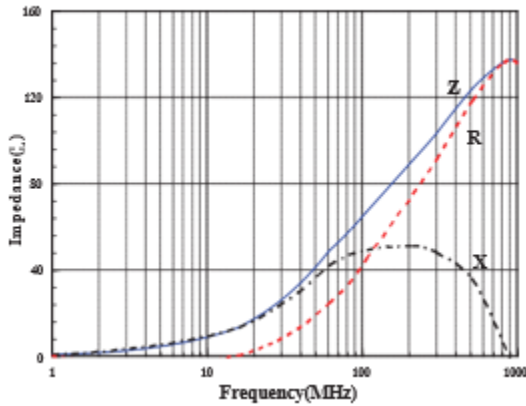
Check Inventory



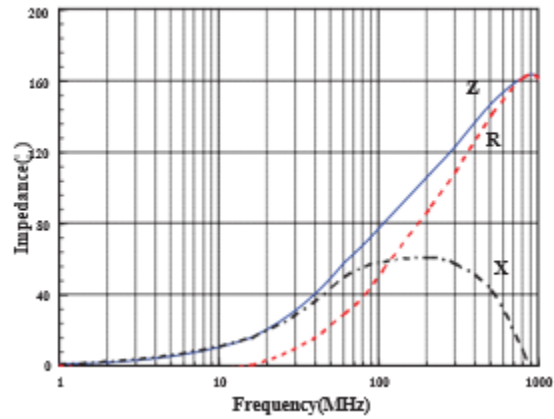
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RoHS/RoHS II Compliant  
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## Performance Graphs

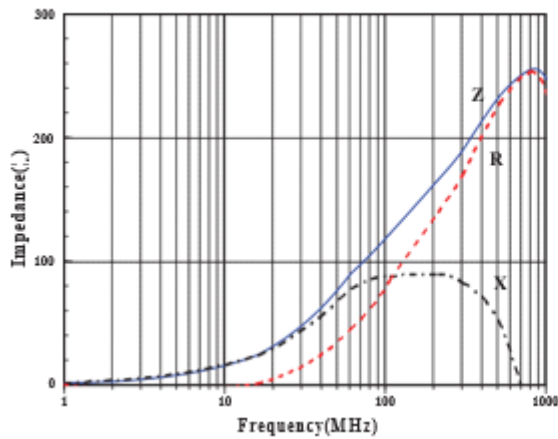
ACML-0201-600



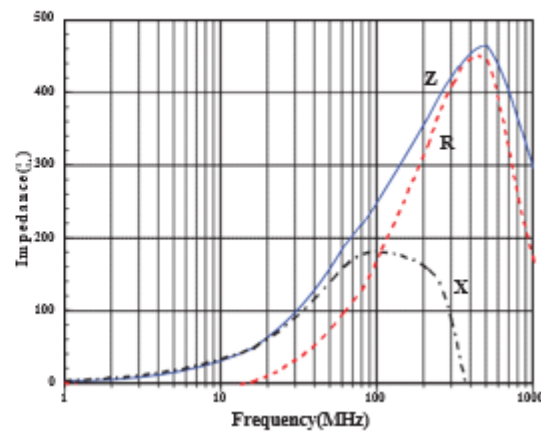
ACML-0201-800



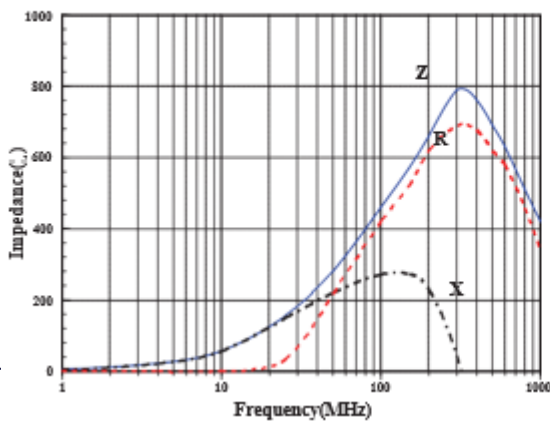
ACML-0201-121



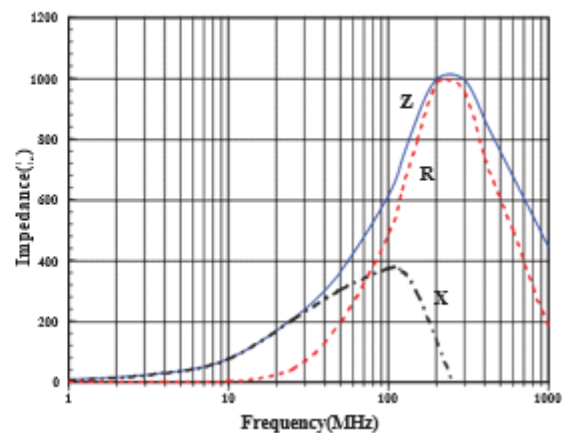
ACML-0201-241



ACML-0201-471



ACML-0201-601



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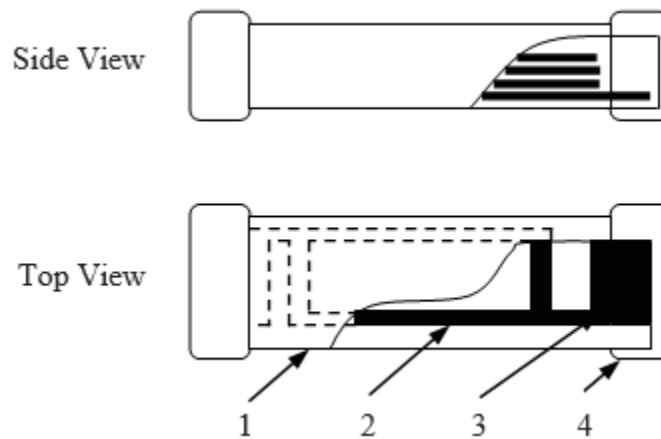


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0.6 x 0.3 x 0.3 mm  
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## Materials



	Component	Material
1	Base Material	Ferrite
2	Internal Conductor	Ag
3	Pull out Electrode	Ag
4	Terminal Electrode	Ag (Inner layer) Ni-Sn (Outer layer)

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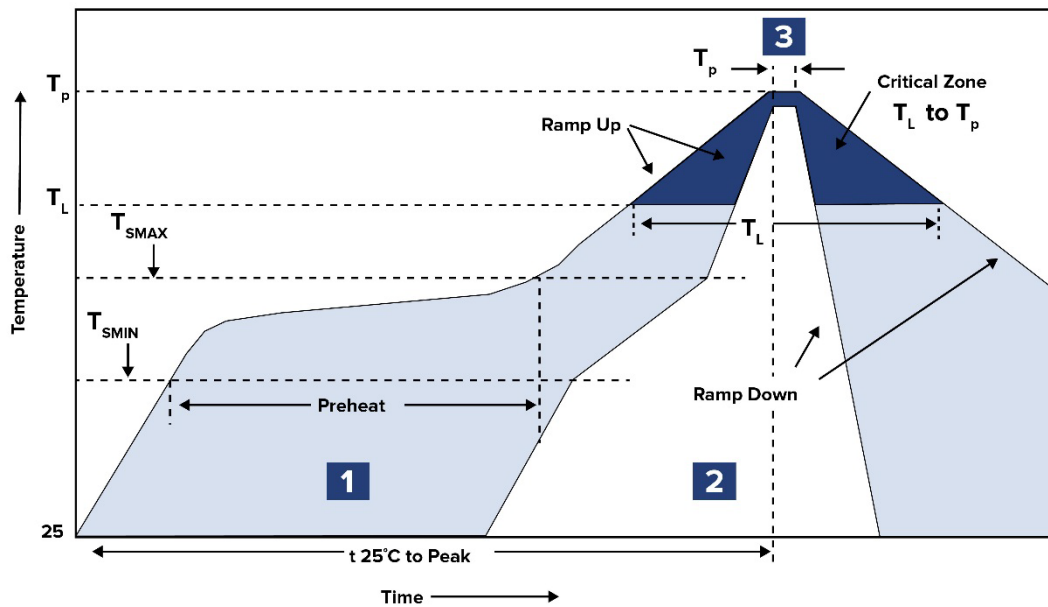


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## Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	$T_L$ 217°C	60 ~ 90 sec.
3	Peak heat	$T_P$ 260°C±5°C	10 sec. MAX

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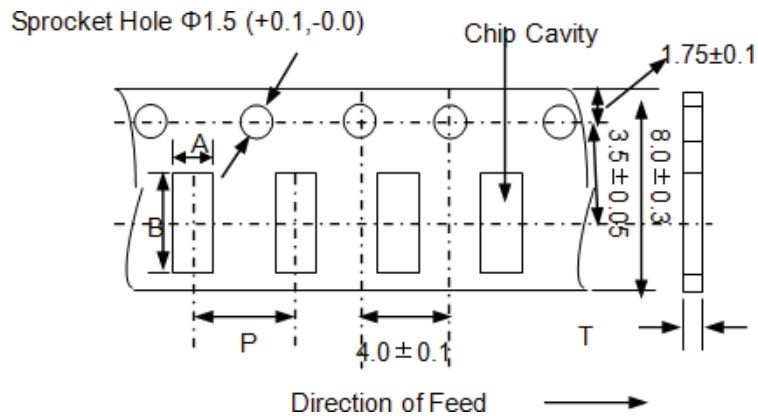
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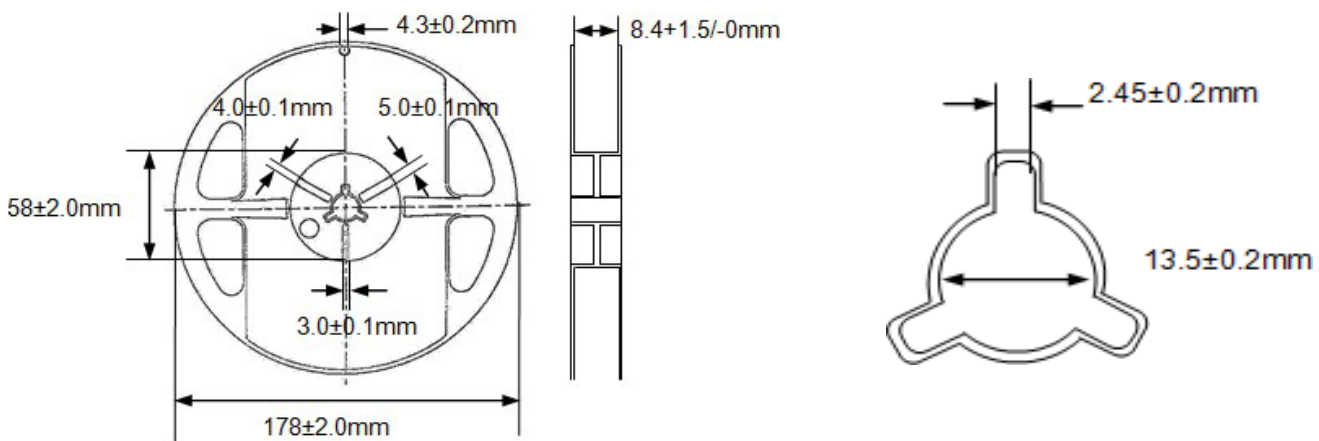
## Packaging

Tape & Reel: 15K pcs/reel



A	B	P	t(max)
0.40±0.1	0.70±0.1	2.0±0.1	0.55

Dimensions: mm



**ATTENTION:** Abracon LLC's products are Commercial-Off-The-Shelf (COTS), which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.





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