

# High Current Multilayer Ferrite Chip Bead



ACML-0603H-xxx Series

Request Samples



Check Inventory



1.6 x 0.8 x 0.8 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Features

- Multilayer monolithic structure yields high reliability
- Unique terminal electrode structure ensures permissible currents
- High impedance over a wide frequency range

## Applications

- Audio & Video Equipment
- Automotive Electrical Equipment
- Communication Equipment
- OA Equipment

## Electrical Specifications

Part Number	Z( $\Omega$ ) $\pm 25\%$	Z Test Freq.(MHz)	Rdc ( $\Omega$ ) Max.	Ir (mA) Max.
ACML-0603H-100	10	100	0.020	3000
ACML-0603H-300	30	100	0.030	3000
ACML-0603H-600	60	100	0.040	2500
ACML-0603H-121	120	100	0.050	2000
ACML-0603H-221	220	100	0.100	1400
ACML-0603H-331	330	100	0.140	1200
ACML-0603H-391	390	100	0.140	1000
ACML-0603H-471	470	100	0.200	1000
ACML-0603H-601	600	100	0.350	500

### Test Conditions and Equipment

**Ir:** Rated current applied when the chip surface temperature rise just 40°C against chip surface temperature. Electric power supplier, Electric current meter, Thermometer.

**Z:** Impedance Analyzer HP4291 or equivalent, 50mV.

**DCR:** LCR Meter HP4263A or equivalent

### Operating Temperature

-55°C to +125°C

### Storage Temperature

-55°C to +125°C and RH 70% (Max)



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REVISED: 07-29-20

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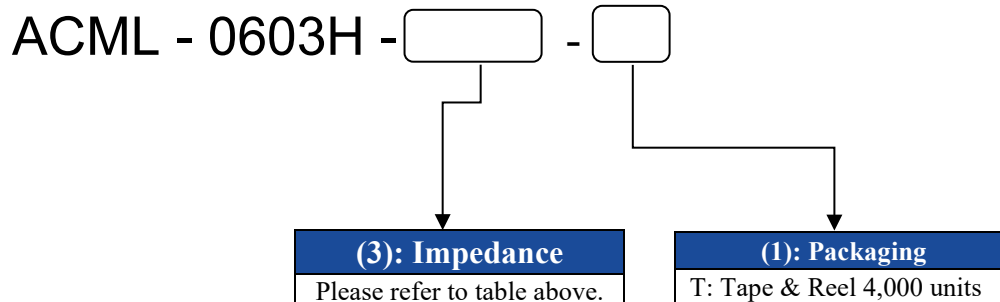


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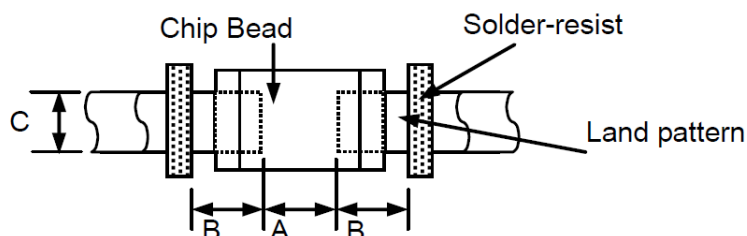
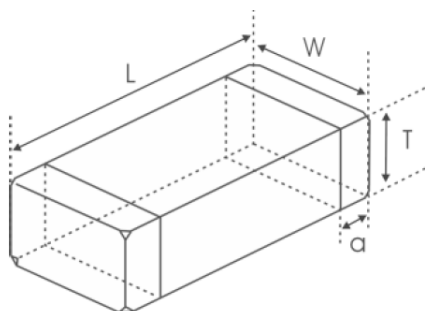


1.6 x 0.8 x 0.8 mm  
 RoHS/RoHS II Compliant  
 MSL Level = 1

## Part Identification



## Mechanical Specifications



Recommended Layout Pattern

L	W	T	a	A	B	C
1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2	0.60 ~ 0.80	0.60 ~ 0.80	0.60 ~ 0.80

Dimensions: mm

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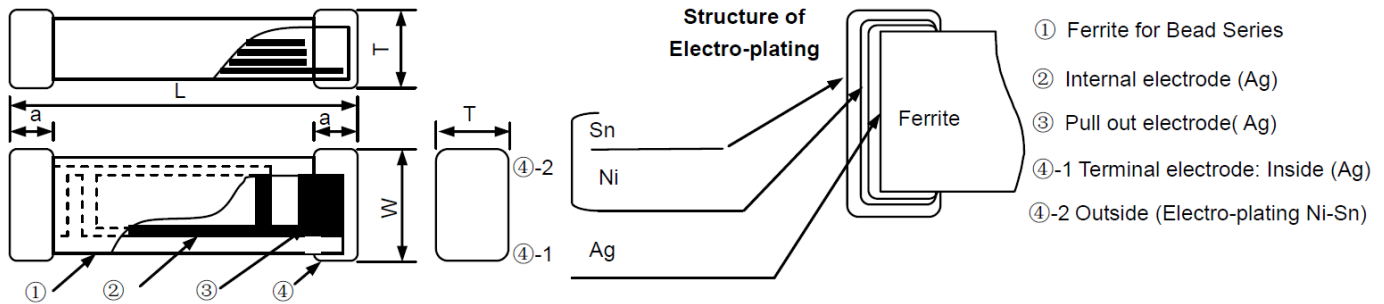


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1.6 x 0.8 x 0.8 mm  
**RoHS/RoHS II Compliant**  
 MSL Level = 1

## Materials



Section	Part Name	Material Name
①	Ferrite Body	Ferrite Powder
②	Inner Coils	Silver Paste
③	Pull-out Electrode (Ag)	Silver Paste
④-1	Terminal Electrode: Inside Ag	Termination Silver Composition
④-2	Electro-Plating: Ni/Sn plating	Plating Chemicals

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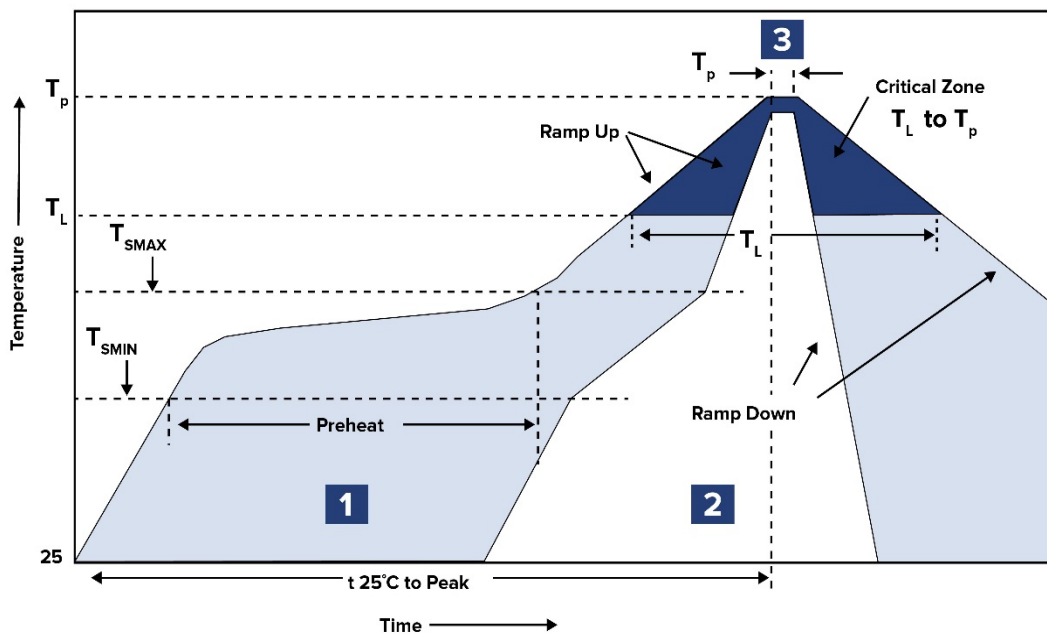
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## Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	$T_L$ 180°C -230°C	60 ~ 90 sec.
3	Peak heat	$T_P$ 260°C±5°C	10 sec. MAX

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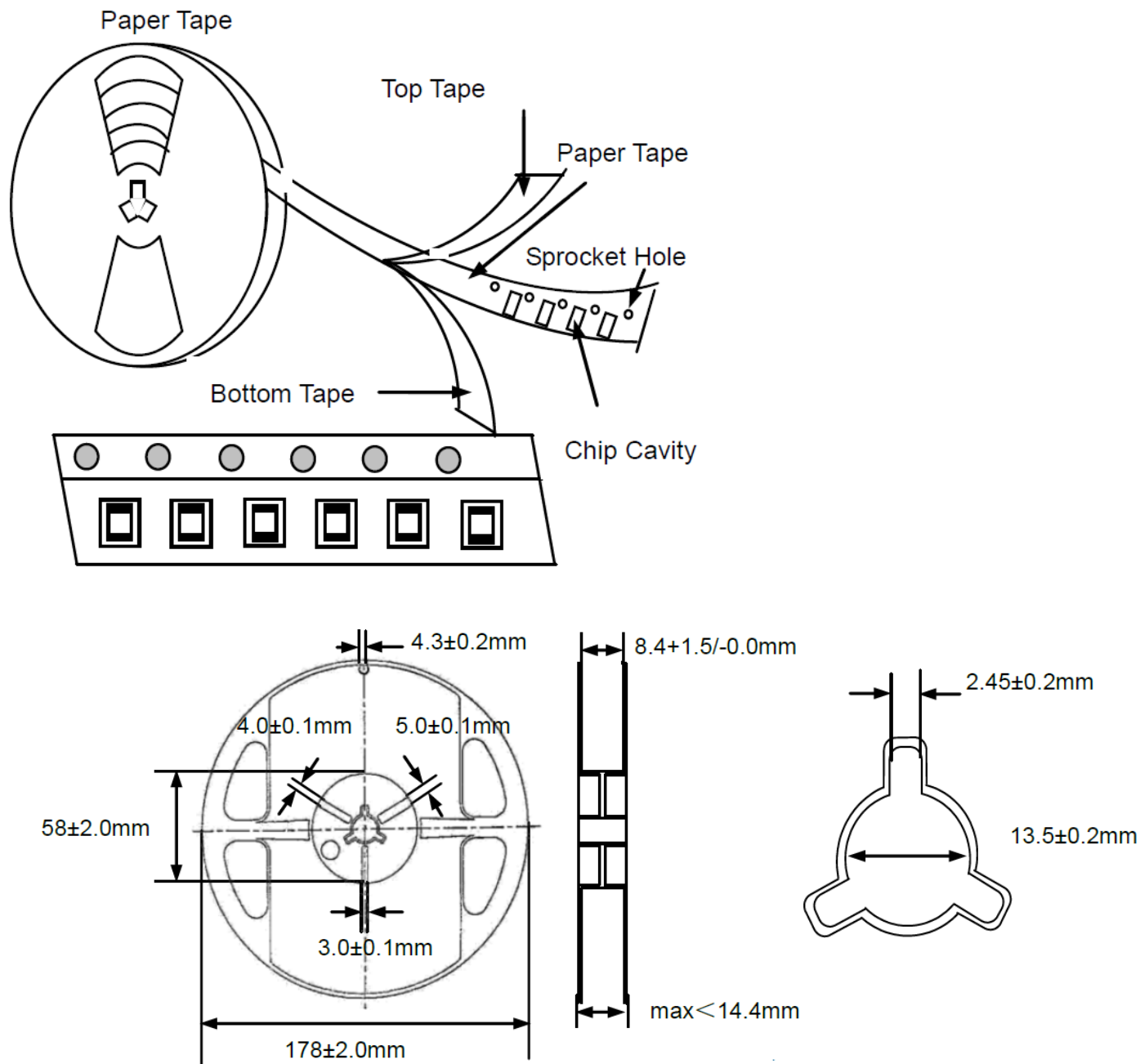
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## Packaging

T=Tape and reel (4,000 pcs/reel)



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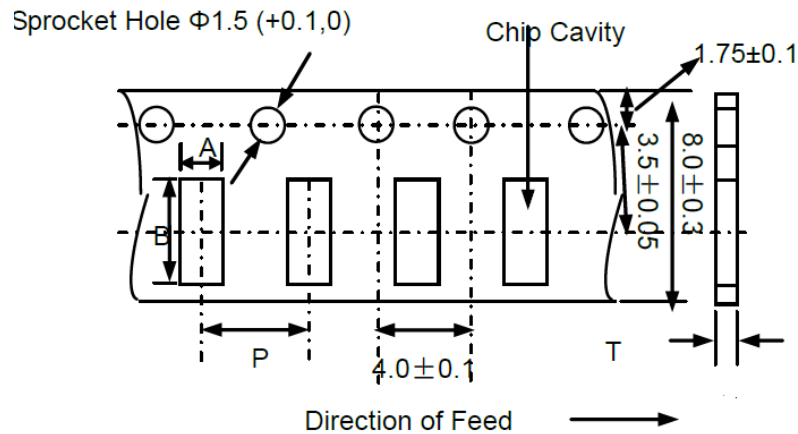


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1.6 x 0.8 x 0.8 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Packaging



A	B	P	Tmax	H
1.0±0.2	1.8±0.2	4.0±0.1	1.1	10

Dimensions: mm

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