# Multilayer Ferrite Chip Bead (High Current)

## ACML-0402HC





1.00 x 0.50 x 0.50mm

#### > FEATURES:

- Multilayer monlithic structure yields high reliability
- Unique terminal electrode design ensures high rated current
- High impedance over a wide frequency range

#### > APPLICATIONS:

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

### > STANDARD SPECIFICATIONS:

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

Part Number ACML-0402HC- Impedance Code	Impedance	Frequency	DC resistance	Rated Current
Units	$\Omega \pm 25\%$	MHz	Ω max	mA max
Symbol	Z	F	RDC	$I_R$
ACML-0402HC-100	10	100	0.045	2000
ACML-0402HC-300	30	100	0.035	2200
ACML-0402HC-330	33	100	0.035	2200
ACML-0402HC-600	60	100	0.075	1500
ACML-0402HC-800	80	100	0.070	1500
ACML-0402HC-121	120	100	0.090	1300
ACML-0402HC-221	220	100	0.160	900
ACML-0402HC-301	300	100	0.200	600
ACML-0402HC-471	470	100	0.300	500
ACML-0402HC-601	600	100	0.340	500

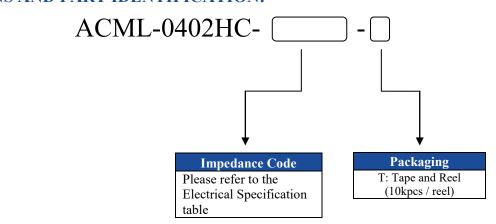
### **Test Conditions and Equipments**

 $I_R$ : 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

#### > OPTIONS AND PART IDENTIFICATION:

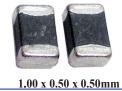




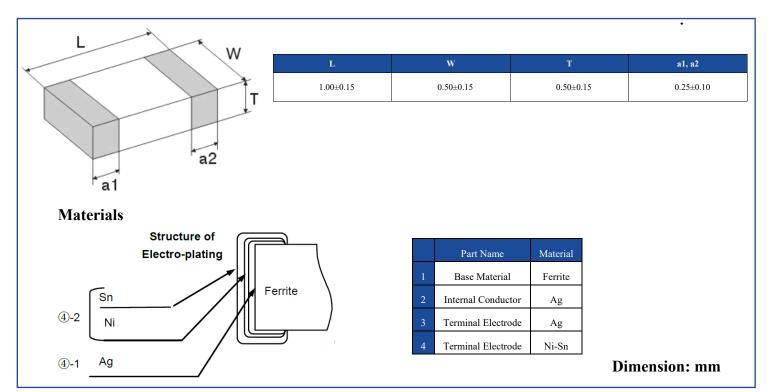
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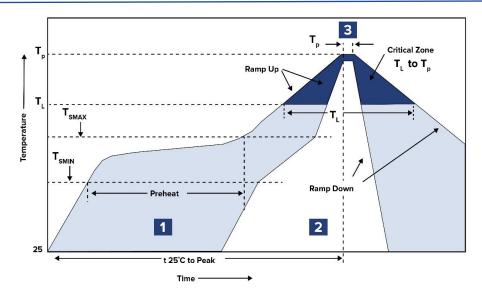




#### **OUTLINE DIMENSIONS:**



### > REFLOW PROFILE

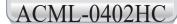


Zone	Description	Temperature	Times
1	Preheat	$\begin{split} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{split}$	$60 \sim 120$ sec.
2	Reflow	T <sub>L</sub> 217°C	60 ~ 90 sec.
3	Peak heat	Т <sub>Р</sub> 260°С	10 sec. Max

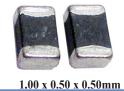


**REVISED: 06-1-20** 

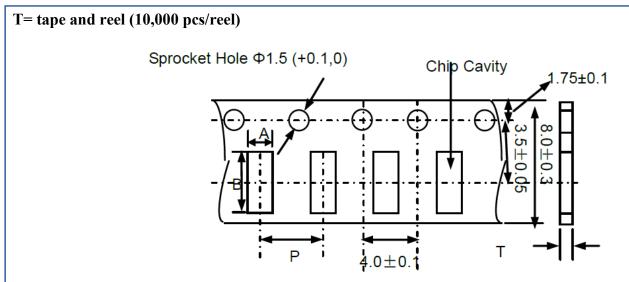
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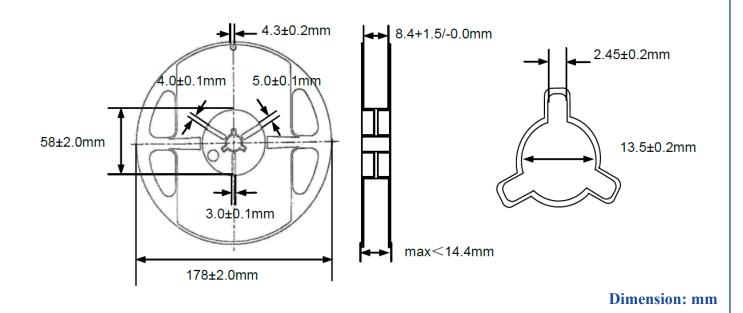


#### > TAPE & REEL:



Reel Dimensions							
A	В	P	T max				
$0.65\pm0.1$	1.15±0.1	$2.0\pm0.05$	0.8				

Direction of Feed



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**REVISED: 06-1-20**