

## **Features**

- Compact size
- High current
- Wide impedance range
- RoHS compliant\* and halogen free\*\*

# MH1608 Series High Current Chip Ferrite Beads

## **Electrical Specifications**

Model Number	Impedance (Ω) at 100 MHz	RDC (mΩ) Max.	IDC (A) Max.
MH1608-100Y	10 ±25 %	10	6.0
MH1608-300Y	30 ±25 %	40	3.0
MH1608-300T	30 ±25 %	10	5.0
MH1608-600Y	60 ±25 %	40	3.0
MH1608-600T	60 ±25 %	20	4.0
MH1608-800Y	80 ±25 %	40	3.0
MH1608-800T	80 ±25 %	30	3.0
MH1608-101Y	100 ±25 %	40	3.0
MH1608-101T	100 ±25 %	30	3.0
MH1608-121Y	120 ±25 %	100	2.0
MH1608-121T	120 ±25 %	35	3.0
MH1608-151Y	150 ±25 %	100	2.0
MH1608-151T	150 ±25 %	40	2.5
MH1608-181Y	180 ±25 %	100	2.0
MH1608-221Y	220 ±25 %	100	2.0
MH1608-221T	220 ±25 %	50	2.3
MH1608-301Y	300 ±25 %	200	1.0
MH1608-301T	300 ±25 %	70	2.2
MH1608-471Y	470 ±25 %	200	1.0
MH1608-601Y	600 ±25 %	200	1.0

## **Additional Information**

Click these links for more information:











TECHNICAL LIBRARY INVENTORY

**General Specifications** 

Operating Temperature .....-55 °C to +125 °C Storage Temperature .....-55 °C to +125 °C Rated Current.....Based on max temperature rise of +40 °C Moisture Sensitivity Level......1 ESD Classification (HBM).....N/A

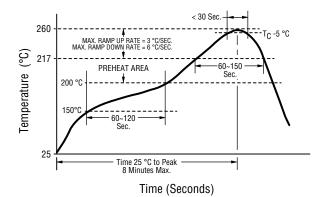
## **Materials**

Core Material ......Ferrite Internal Conductor.....Ag or Ag/Pd Terminal ......Ag/Ni/Sn Packaging...... 4,000 pcs/7-inch reel

## **Equivalent Circuit**



## **Soldering Profile**



REFLOW TIMES: 3 TIMES MAX.

Profile Feature	Pb Free Assembly	
Preheat - Temperature Min. (T <sub>Smin</sub> ) - Temperature Max. (T <sub>smax</sub> ) - Time(t <sub>S</sub> ) from T <sub>Smin</sub> to T <sub>smax</sub>	150 °C 200 °C 60-120 seconds	
Ramp-up Rate (T <sub>L</sub> to T <sub>p</sub> )	3 °C/second max.	
Liquidous temperature (TL) Time (tL) maintained above TL	217 °C 60-150 seconds	
Peak package body temperature (Tp)	260 °C	
Time within 5 °C of Actual Peak Temperature (t <sub>p</sub> )	< 30 seconds	
Ramp-Down Rate (T <sub>p</sub> to T <sub>L</sub> )	6 °C/second max.	
Time 25 °C to Peak Temperature	8 minutes max.	



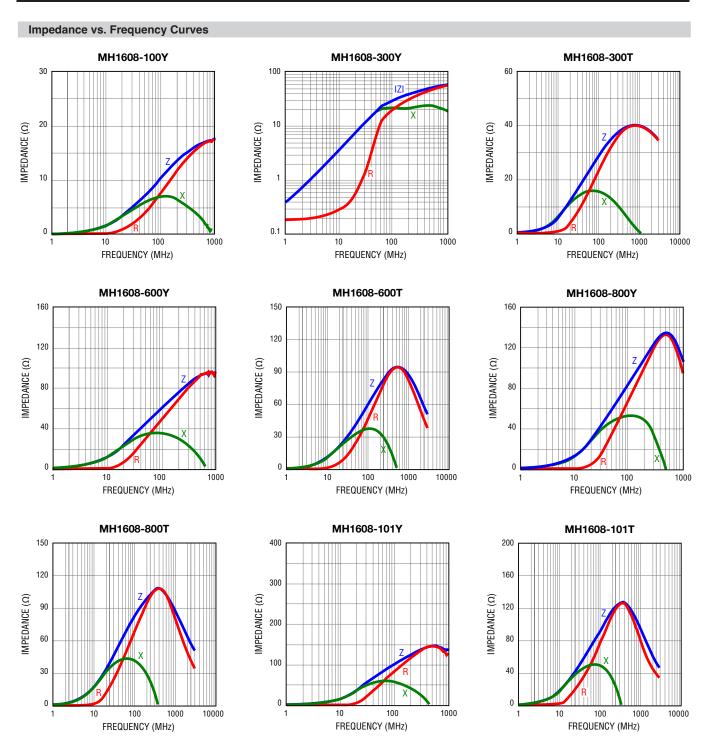
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Specifications are subject to change without notice.

RoHS Directive 2015/863, Mar 31, 2015 and Annex.

<sup>\*\*</sup>Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

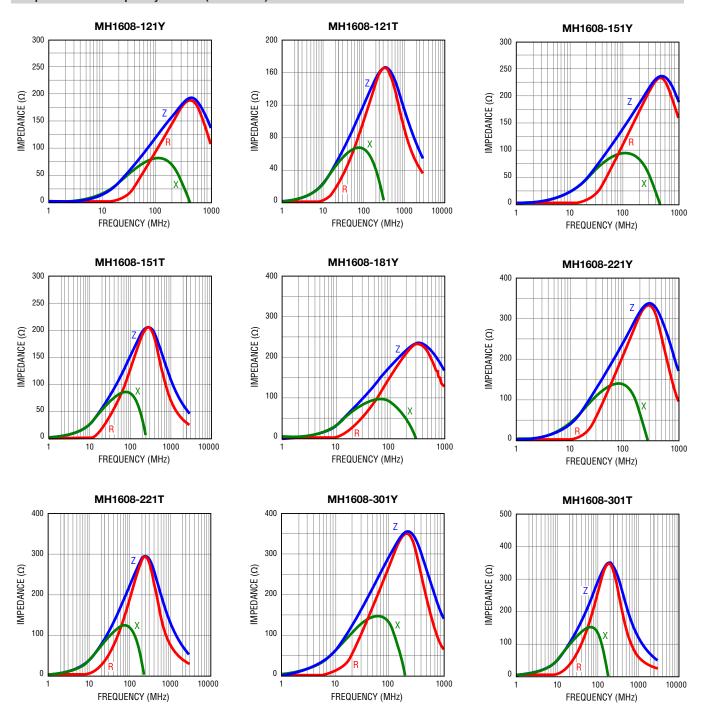
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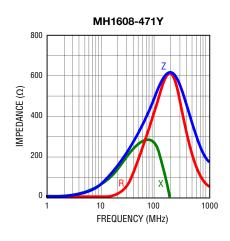
## BOURNS

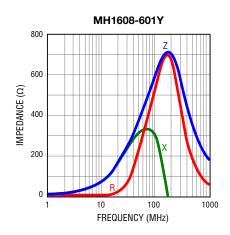
## Impedance vs. Frequency Curves (Continued)



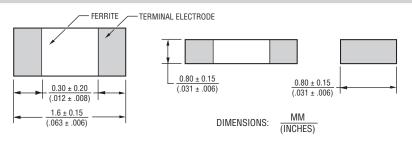
# MH1608 Series High Current Chip Ferrite Beads

## Impedance vs. Frequency Curves (Continued)

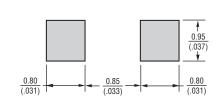




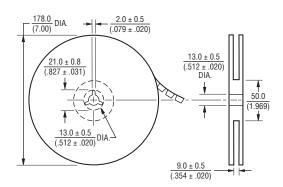
### **Product Dimensions**

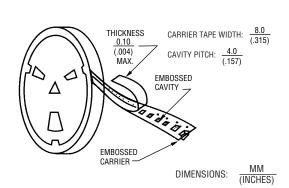


### **Recommended Land Pattern**



## **Reel Dimensions**





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