

## Features

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

## Applications

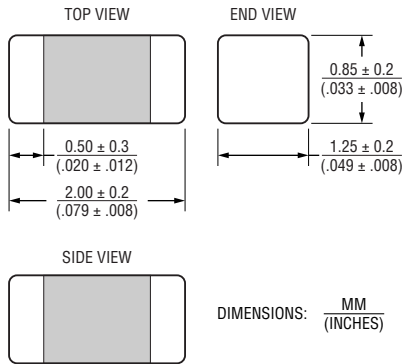
- EMI suppression in power supplies and RF lines

# MH209-T Series – High Current Chip Ferrite Beads

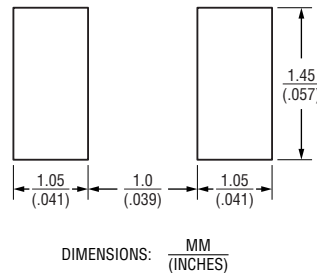
### Electrical Specifications @ 25 °C

Model Number	Impedance ( $\Omega$ ) at 100 MHz / 60 mV	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA) Max.
MH2029-300T	30 $\pm$ 25 %	0.004	8500
MH2029-700T	70 $\pm$ 25 %	0.009	6000
MH2029-111T	110 $\pm$ 25 %	0.013	5000
MH2029-181T	180 $\pm$ 25 %	0.02	4000
MH2029-331T	330 $\pm$ 25 %	0.04	2800
MH2029-471T	470 $\pm$ 25 %	0.05	2500
MH2029-601T	600 $\pm$ 25 %	0.06	2300
MH2029-102T	1000 $\pm$ 25 %	0.12	1600

### Product Dimensions



### Recommended Land Pattern



### Additional Information

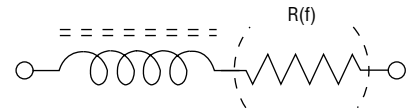
Click these links for more information:



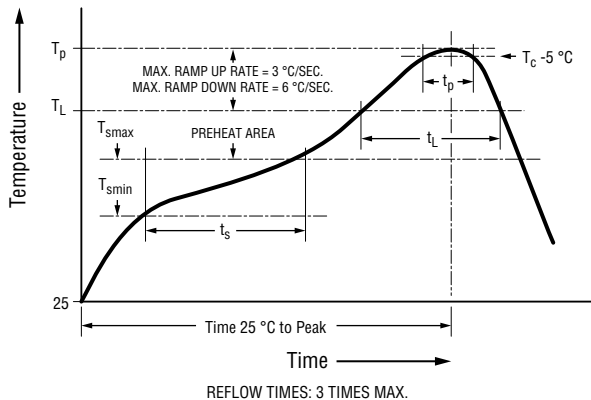
### General Specifications

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

### Equivalent Circuit



### Soldering Profile



Profile Feature	Pb Free Assembly
Preheat - Temperature Min. ( $T_{smin}$ ) - Temperature Max. ( $T_{smax}$ ) - Time ( $t_s$ ) from $T_{smin}$ to $T_{smax}$	150 °C 200 °C 60-120 seconds
Ramp-up Rate ( $T_L$ to $T_p$ )	3 °C/second max.
Liquidous temperature ( $T_L$ ) Time ( $t_L$ ) maintained above $T_L$	217 °C 60-150 seconds
Peak package body temperature ( $T_p$ )	260 °C
Time ( $t_p$ ) at $T_c - 5$ °C ( $T_p$ should be equal to or less than $T_c$ )	< 30 seconds
Ramp-Down Rate ( $T_p$ to $T_L$ )	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.



**WARNING Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

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

\*\* 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.

Specifications are subject to change without notice.

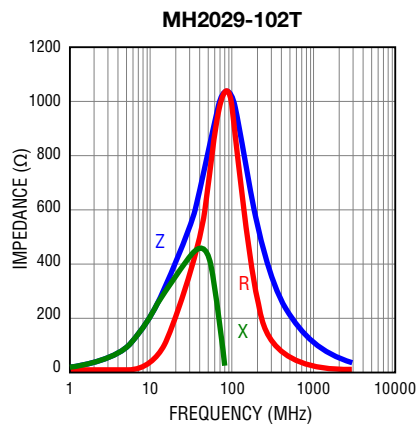
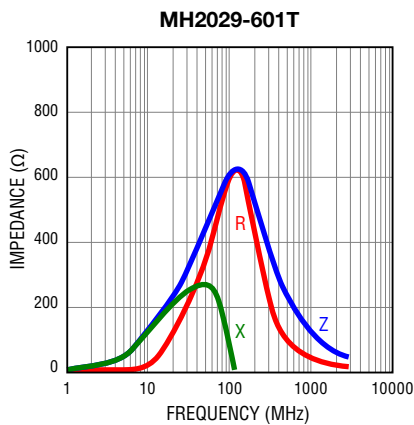
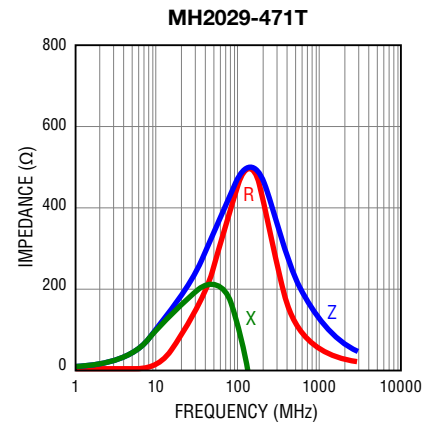
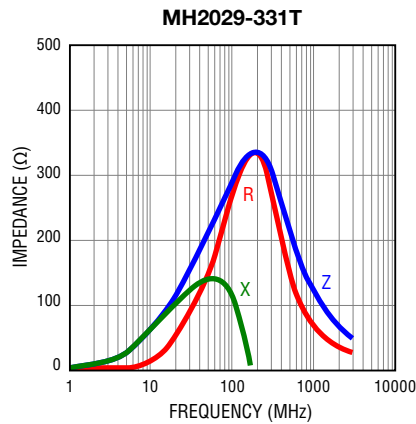
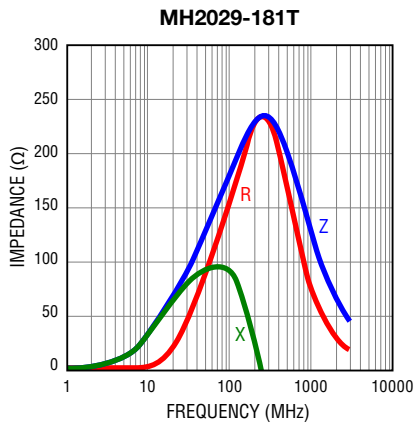
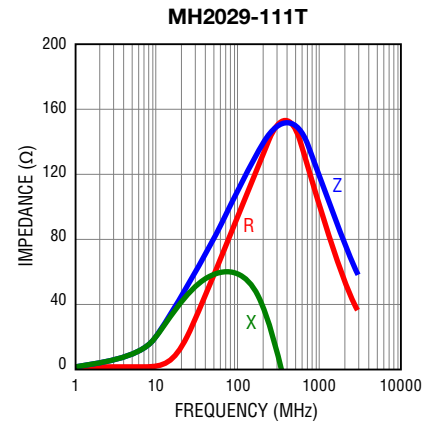
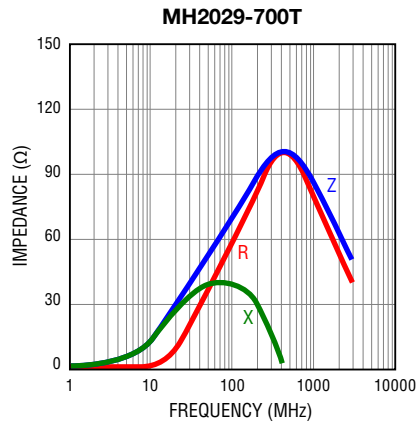
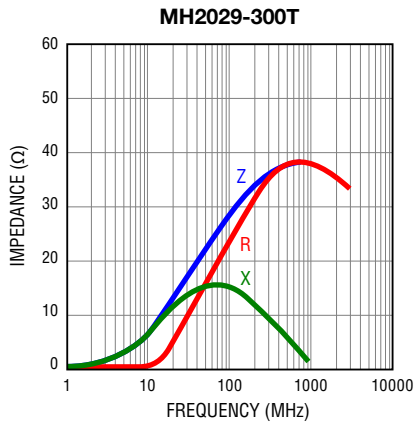
Users should verify actual device performance in their specific applications.

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# MH209-T Series – High Current Chip Ferrite Beads

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## Electrical Specifications (continued)



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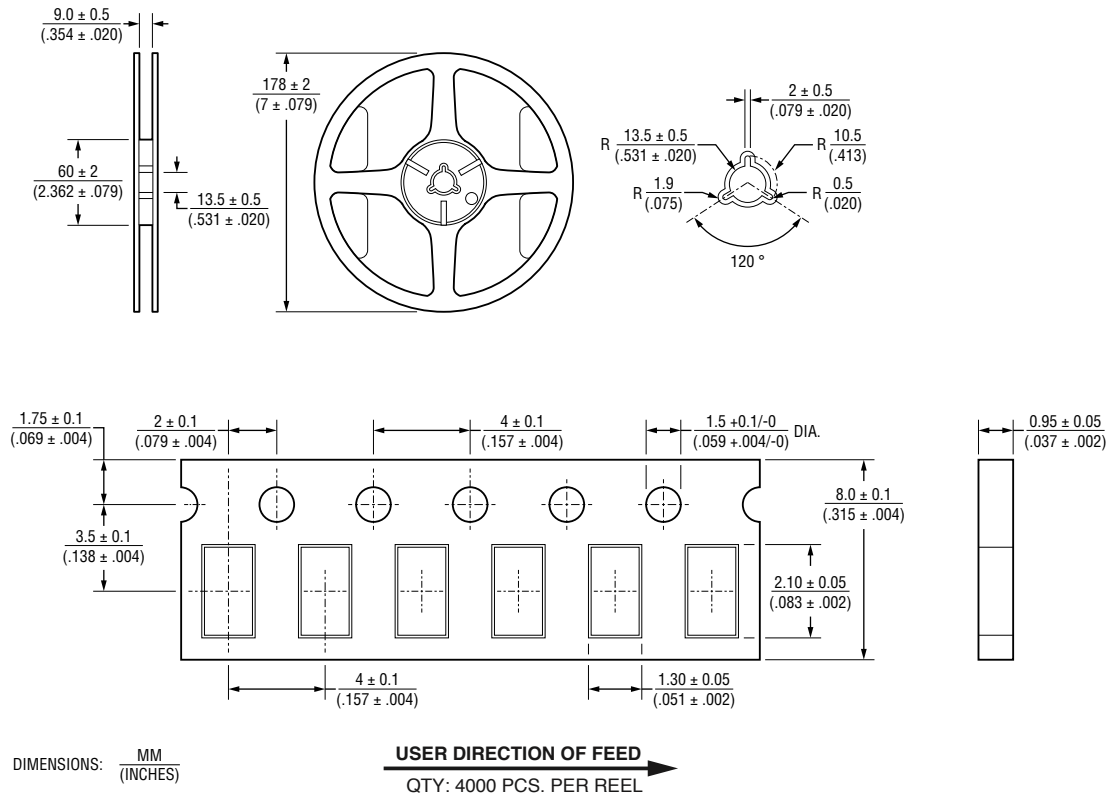
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# MH2029-T Series – High Current Chip Ferrite Beads

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## Packaging Specifications



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