



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

Additional Information

Click these links for more information:



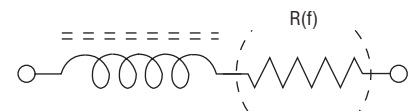
General Specifications

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

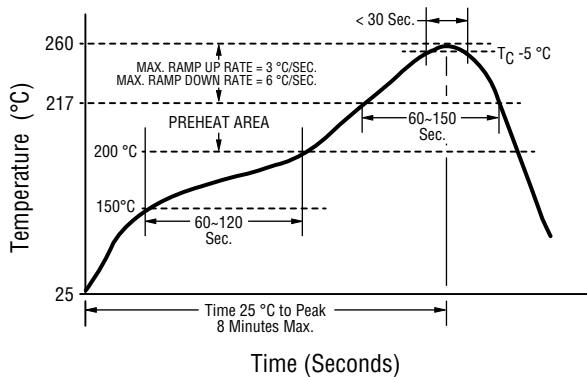
Materials

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

Equivalent Circuit



Soldering Profile



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 within 5 °C of Actual Peak Temperature (t_p)	< 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

* 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.

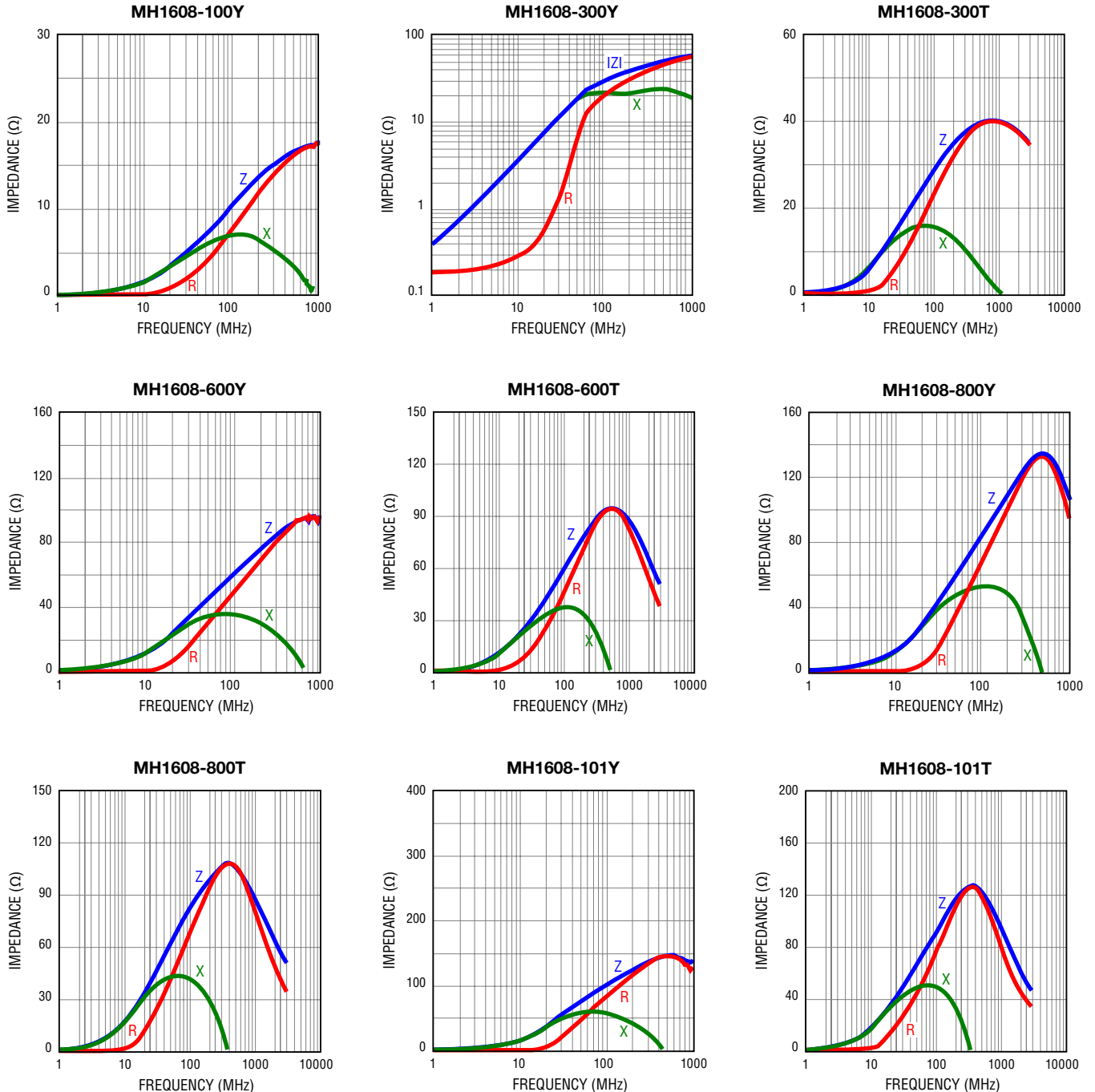
Users should verify actual device performance in their specific applications.

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Impedance vs. Frequency Curves

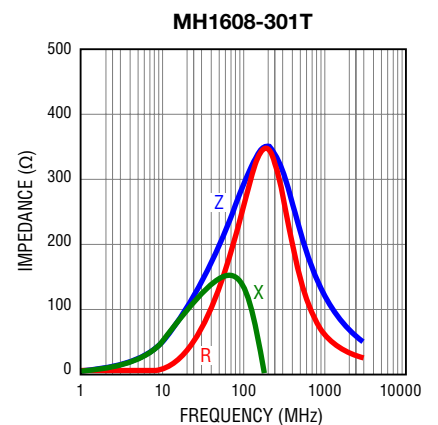
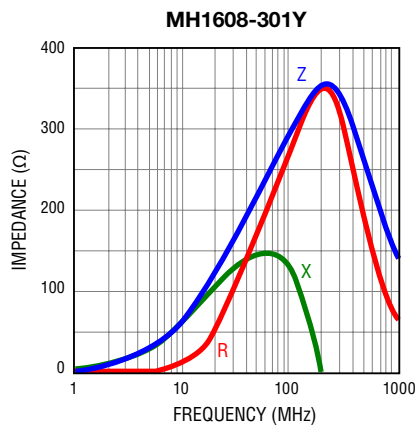
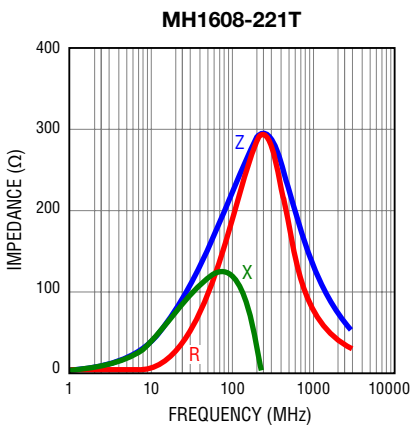
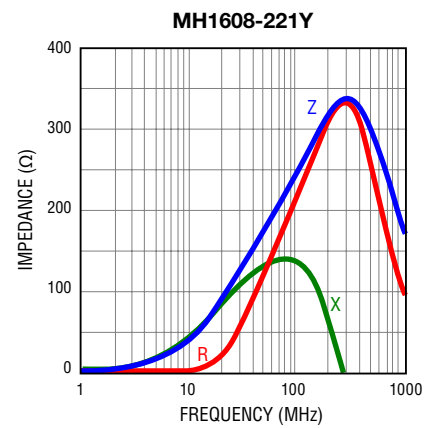
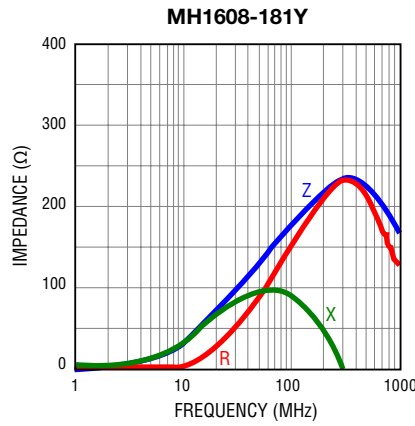
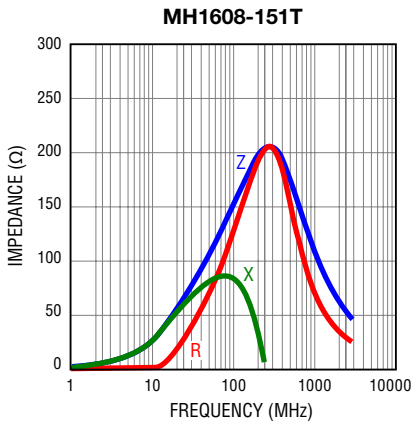
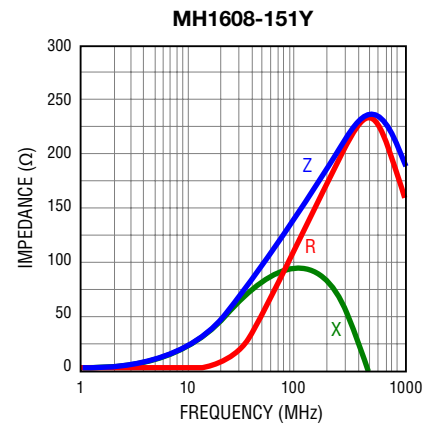
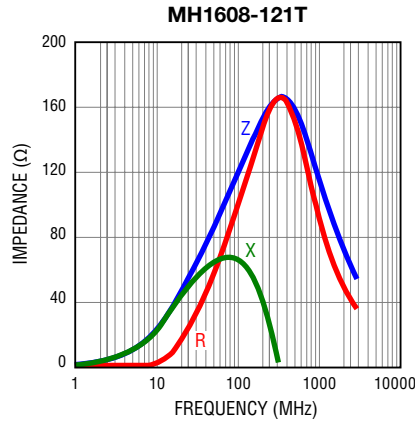
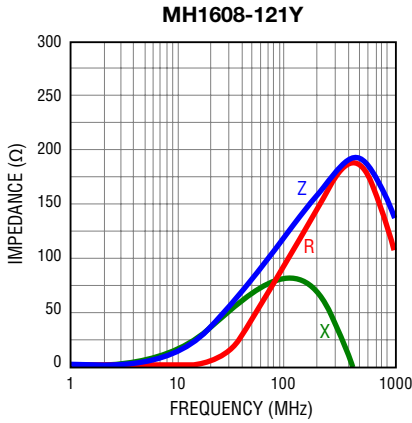


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Impedance vs. Frequency Curves (Continued)



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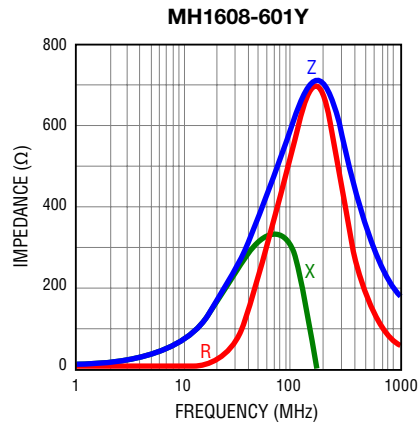
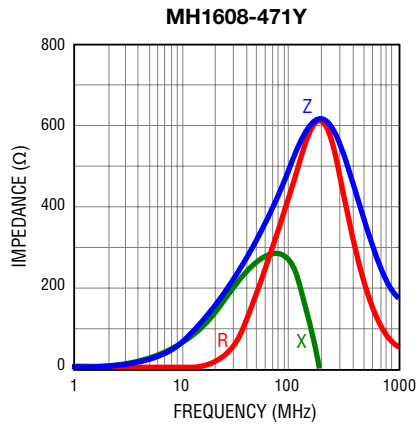
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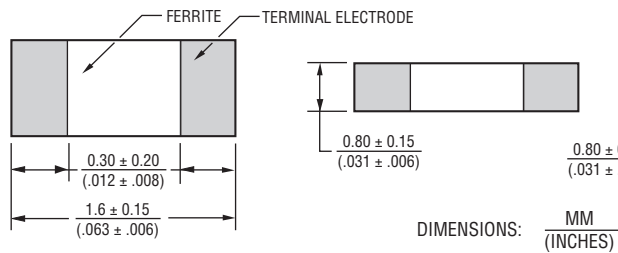
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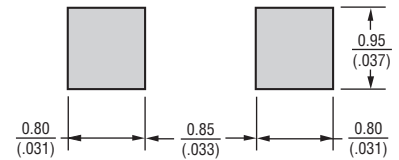
Impedance vs. Frequency Curves (Continued)



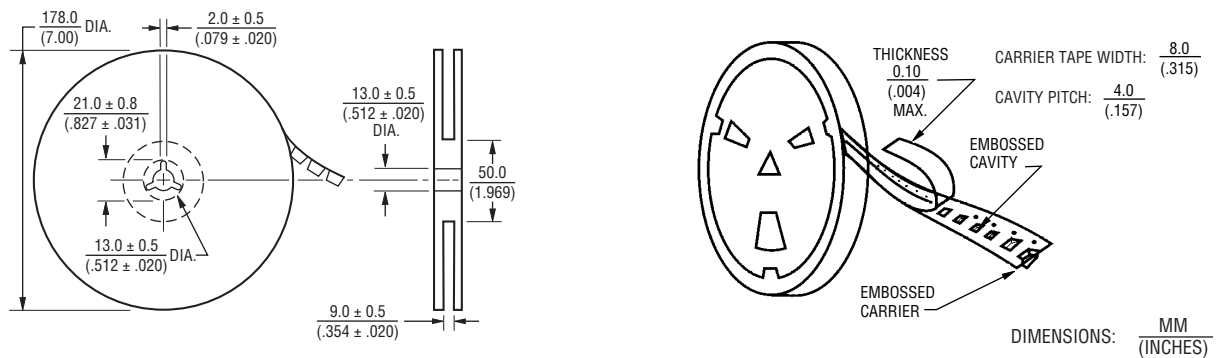
Product Dimensions



Recommended Land Pattern



Reel Dimensions



REV. 06/22

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