



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:



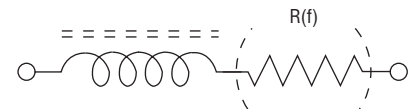
General Specifications

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

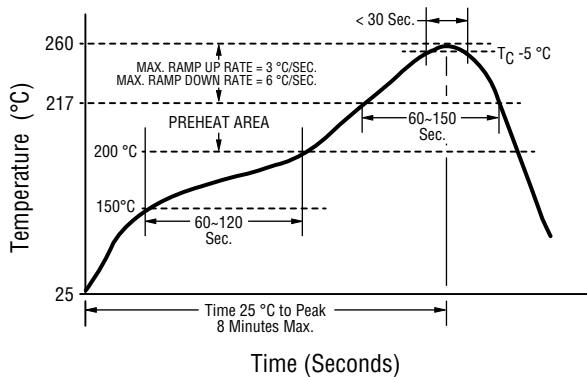
Materials

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

Equivalent Circuit



Soldering Profile



REFLOW TIMES: 3 TIMES MAX.

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.

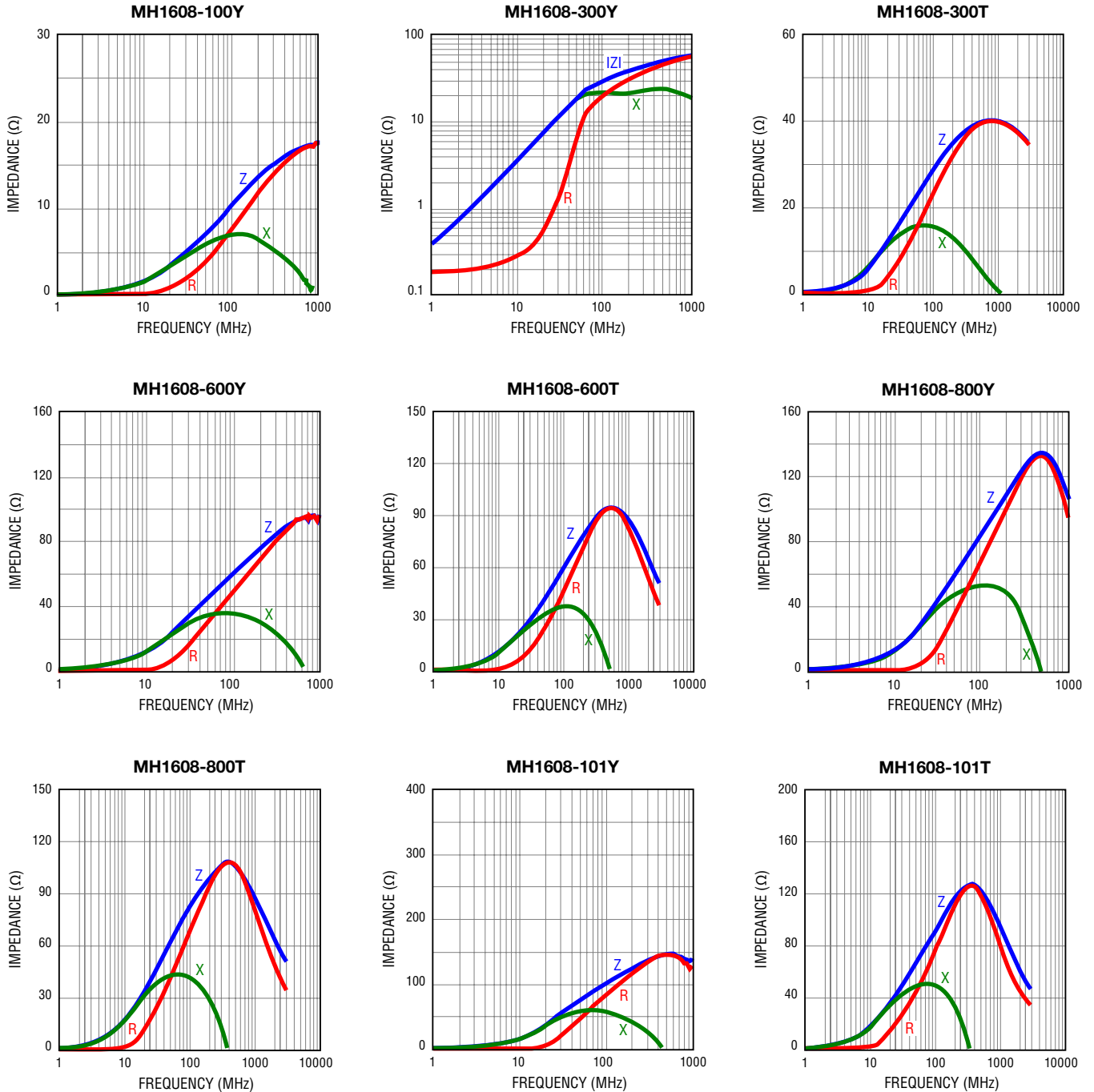
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Impedance vs. Frequency Curves

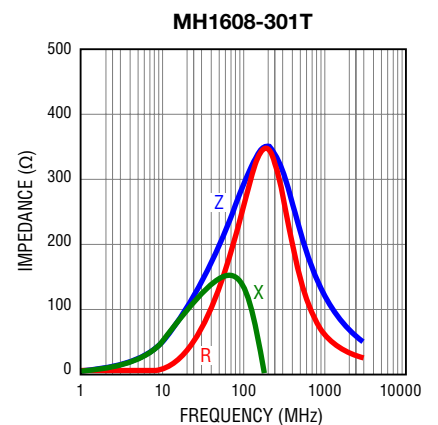
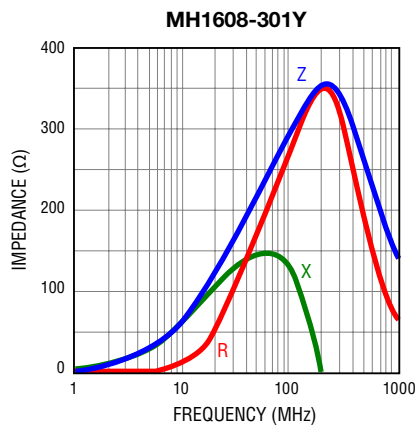
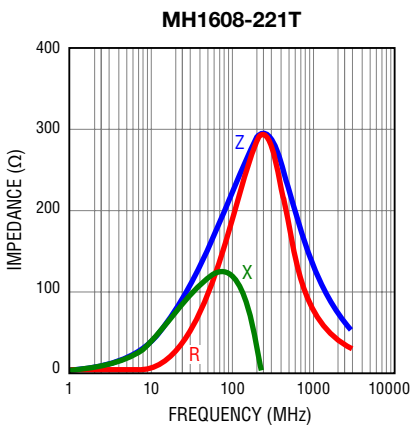
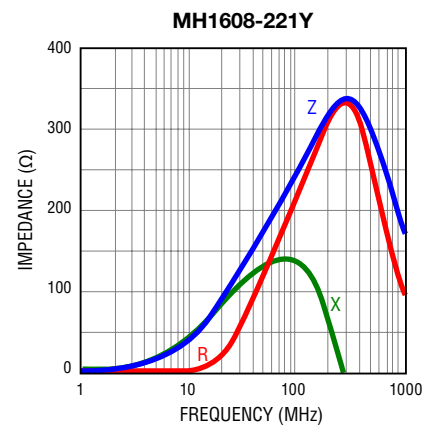
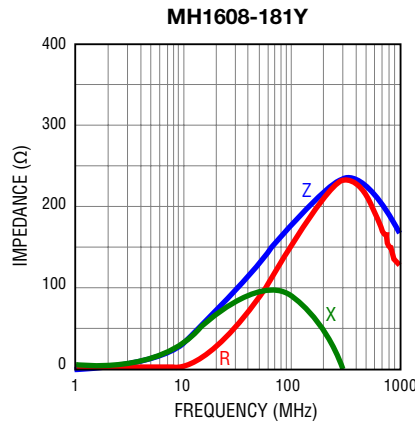
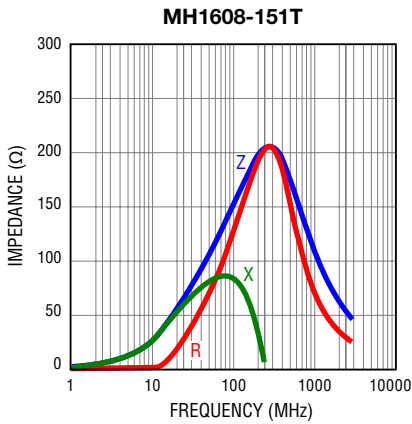
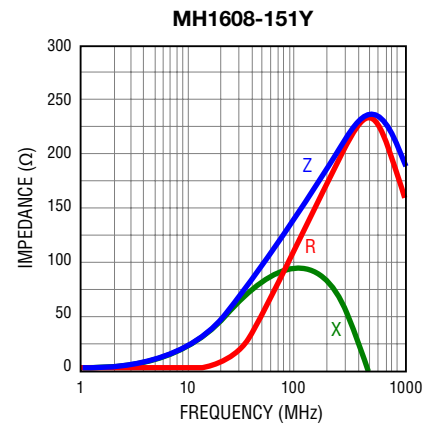
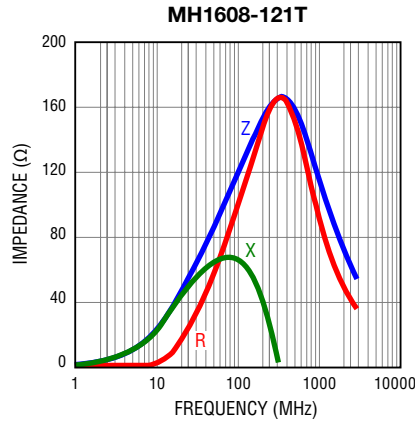
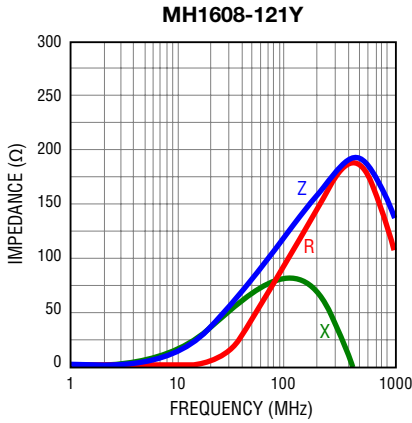


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Impedance vs. Frequency Curves (Continued)



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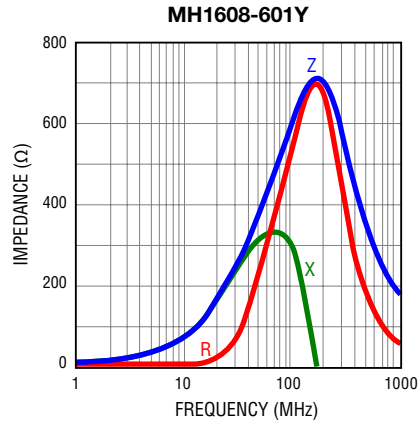
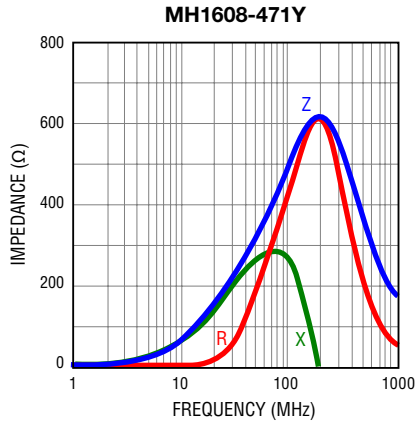
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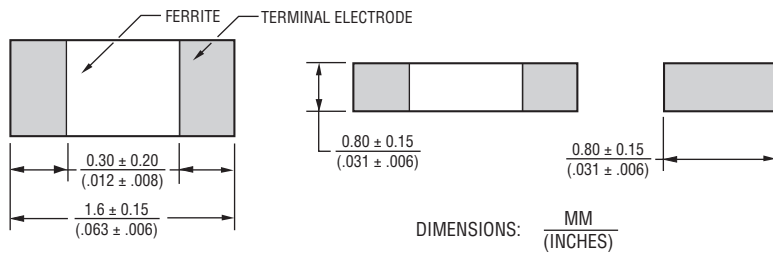
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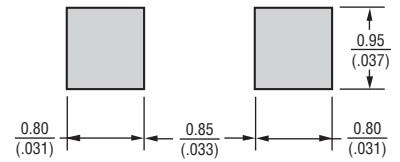
Impedance vs. Frequency Curves (Continued)



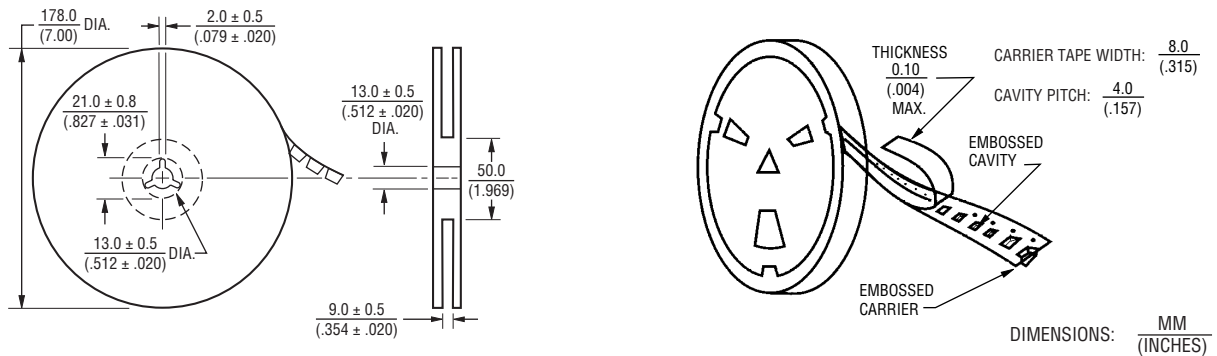
Product Dimensions



Recommended Land Pattern



Reel Dimensions



REV. 06/22

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