



## Features

- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Accurate dimensions for automatic surface mounting
- Wide impedance range
- RoHS compliant\* and halogen free\*\*



The models indicated in grey are currently available but not recommended for new designs.

## MH Series High Current Chip Ferrite Beads

### Electrical Specifications

| Model Number | Impedance ( $\Omega$ ) at 100 MHz | RDC (m $\Omega$ ) Max. | IDC (A) Max. |
|--------------|-----------------------------------|------------------------|--------------|
| MH4532-700Y  | 70 $\pm$ 25 %                     | 30                     | 6.0          |
| MH4516-600Y  | 60 $\pm$ 25 %                     | 10                     | 6.0          |
| MH4516-750Y  | 75 $\pm$ 25 %                     | 25                     | 3.0          |
| MH4516-800Y  | 80 $\pm$ 25 %                     | 50                     | 3.0          |
| MH4516-102Y  | 1000 $\pm$ 25 %                   | 150                    | 1.5          |
| MH3261-260Y  | 26 $\pm$ 25 %                     | 40                     | 3.0          |
| MH3261-601Y  | 600 $\pm$ 25 %                    | 100                    | 2.0          |
| MH2029-070Y  | 7 $\pm$ 25 %                      | 30                     | 3.0          |
| MH2029-100Y  | 10 $\pm$ 25 %                     | 10                     | 6.0          |
| MH2029-300Y  | 30 $\pm$ 25 %                     | 25                     | 3.0          |
| MH2029-400Y  | 40 $\pm$ 25 %                     | 20                     | 5.0          |
| MH2029-600Y  | 60 $\pm$ 25 %                     | 20                     | 5.0          |
| MH2029-800Y  | 80 $\pm$ 25 %                     | 40                     | 3.0          |
| MH2029-101Y  | 100 $\pm$ 25 %                    | 100                    | 2.0          |
| MH2029-121Y  | 120 $\pm$ 25 %                    | 100                    | 2.0          |
| MH2029-151Y  | 150 $\pm$ 25 %                    | 100                    | 2.0          |
| MH2029-221Y  | 220 $\pm$ 25 %                    | 100                    | 2.0          |
| MH2029-301Y  | 300 $\pm$ 25 %                    | 200                    | 1.0          |
| MH2029-401Y  | 400 $\pm$ 25 %                    | 100                    | 2.0          |
| MH2029-471Y  | 470 $\pm$ 25 %                    | 200                    | 1.0          |
| MH2029-601Y  | 600 $\pm$ 25 %                    | 200                    | 1.0          |
| MH1608-100Y  | 10 $\pm$ 25 %                     | 100                    | 6.0          |
| MH1608-300Y  | 30 $\pm$ 25 %                     | 60                     | 3.0          |
| MH1608-600Y  | 60 $\pm$ 25 %                     | 40                     | 3.0          |
| MH1608-800Y  | 80 $\pm$ 25 %                     | 40                     | 3.0          |
| MH1608-101Y  | 100 $\pm$ 25 %                    | 40                     | 3.0          |
| MH1608-121Y  | 120 $\pm$ 25 %                    | 100                    | 2.0          |
| MH1608-151Y  | 150 $\pm$ 25 %                    | 100                    | 2.0          |
| MH1608-221Y  | 220 $\pm$ 25 %                    | 100                    | 2.0          |
| MH1608-301Y  | 300 $\pm$ 25 %                    | 200                    | 1.0          |
| MH1608-471Y  | 470 $\pm$ 25 %                    | 200                    | 1.0          |
| MH1608-601Y  | 600 $\pm$ 25 %                    | 200                    | 1.0          |

### General Specifications

Operating Temperature .....-55 °C to +125 °C  
 Storage Temperature .....-55 °C to +125 °C  
 Storage Condition .....+40 °C max. at 70 % RH  
 Reflow Soldering .. 230 °C, 50 sec. max.  
 Resistance to Soldering Heat .....+260 °C, 5 seconds  
 Rated Current.....Based on max .....temperature rise of +40 °C  
 Terminal Strength  
 (Force "F" applied for 30 seconds)  
 4532 Series.....1.5 F (Kg)  
 4516 Series.....1.0 F (Kg)  
 3261 Series.....1.0 F (Kg)  
 2029 Series.....0.6 F (Kg)  
 1608 Series.....0.5 F (Kg)

### Materials

Core Material.....Ferrite  
 Internal Conductor.....Ag or Ag/Pd  
 Terminal.....Ag/Ni/Sn

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 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

\* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

\*\* Bourns follows the prevailing definition of "halogen free" in the industry. 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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## Applications

- Power supply lines
- IC power lines
- Signal lines

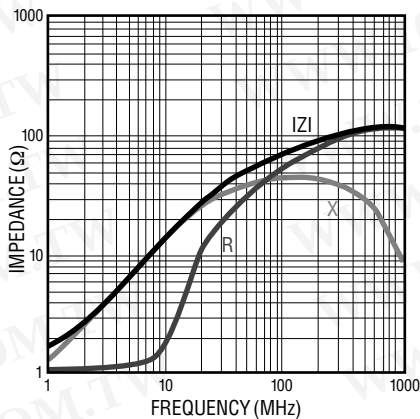
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## MH Series High Current Chip Ferrite Beads

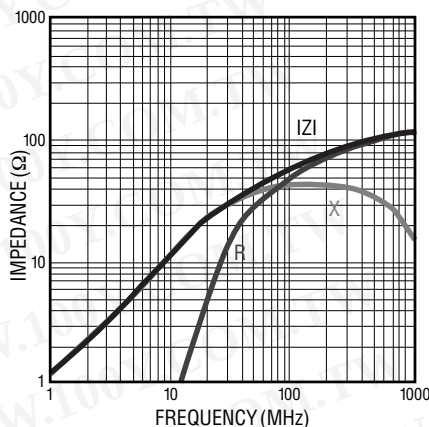
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### Electrical Specifications (continued)

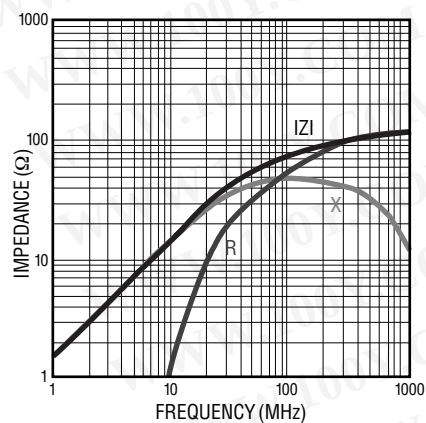
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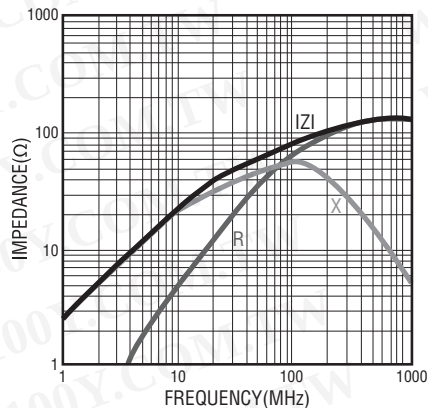
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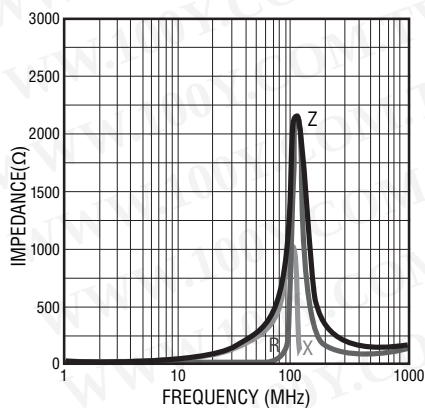
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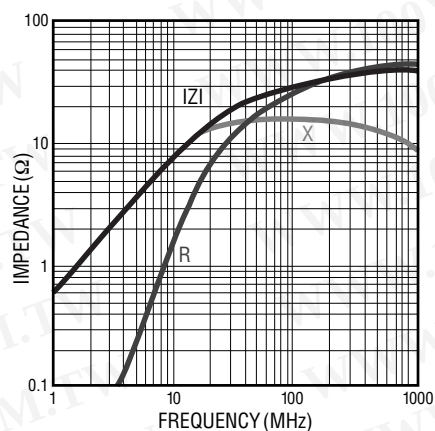
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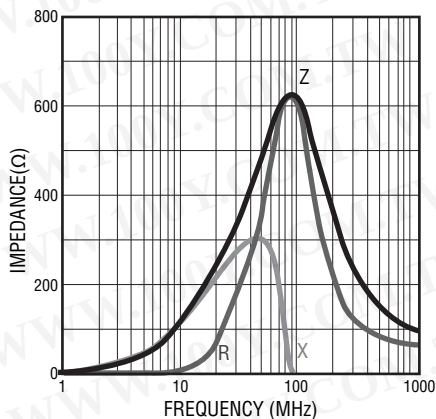
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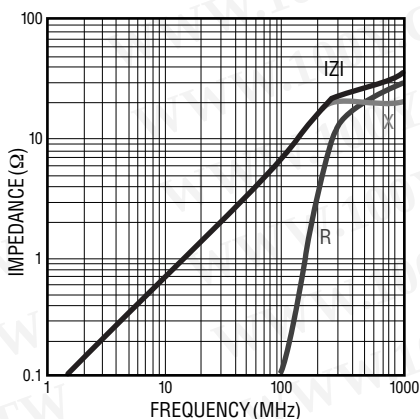
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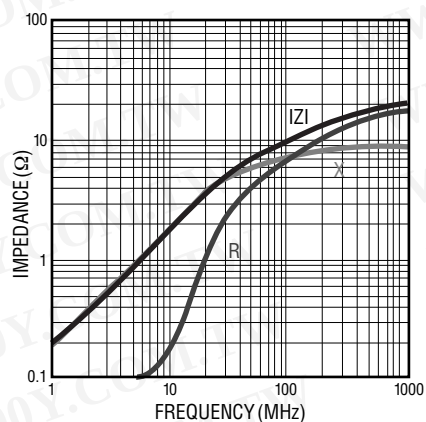
MH 3261- 601Y



MH 2029- 070Y



MH 2029- 100Y



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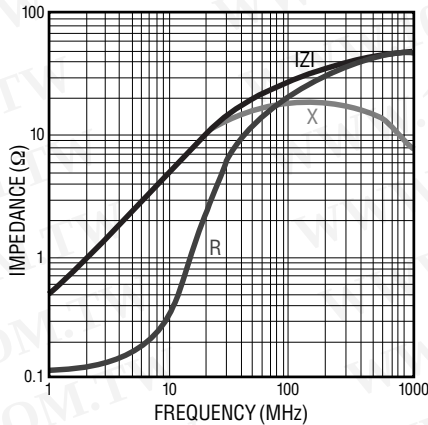
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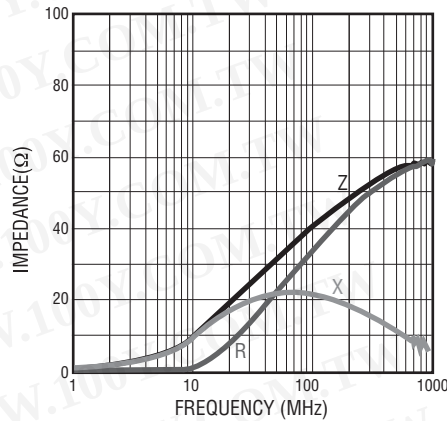
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### Electrical Specifications (continued)

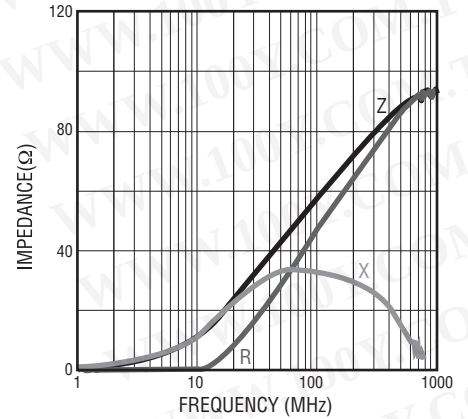
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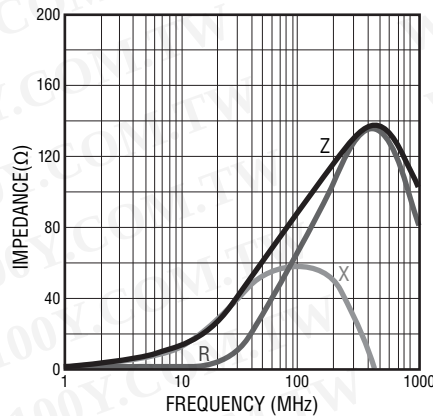
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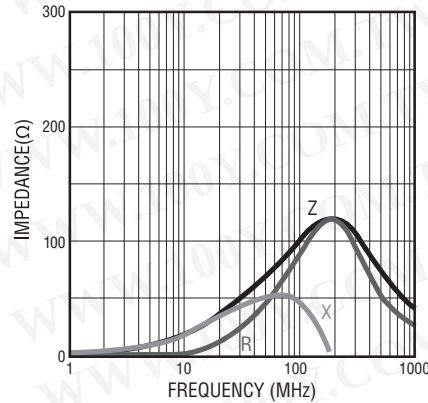
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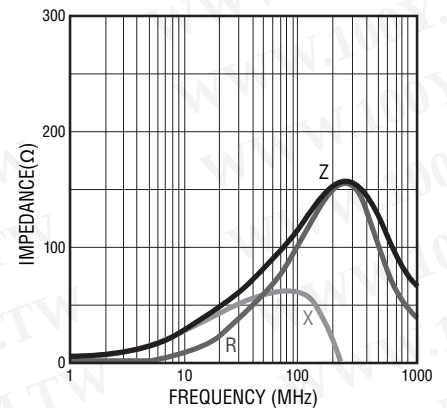
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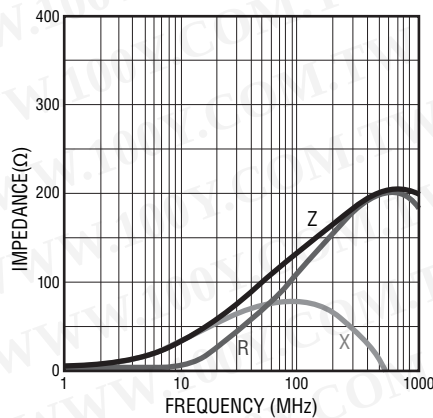
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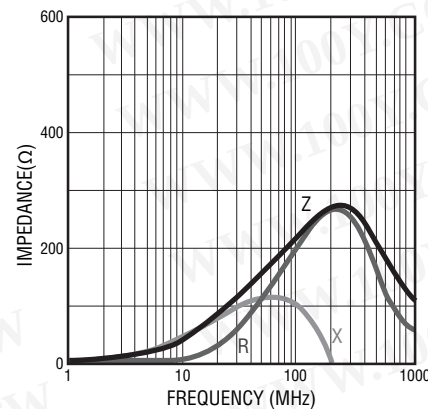
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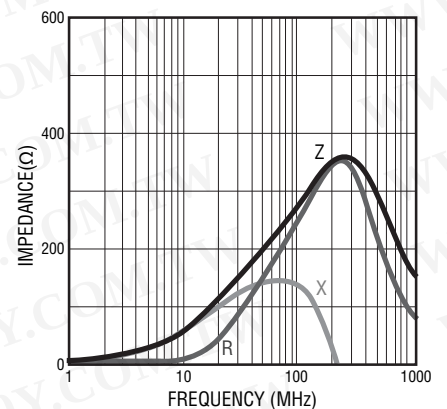
**MH 2029- 151Y**



**MH 2029- 221Y**



**MH 2029- 301Y**



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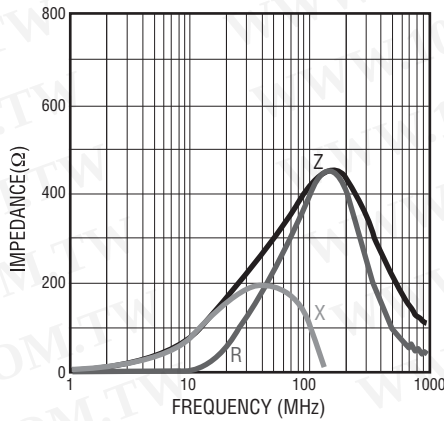
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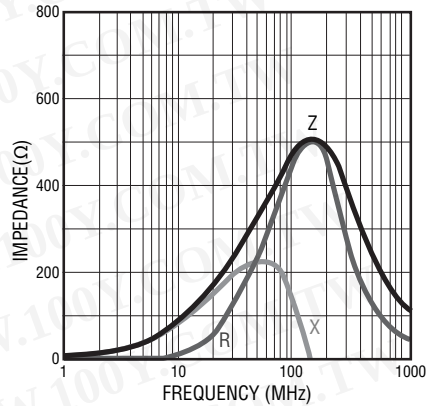
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### Electrical Specifications (continued)

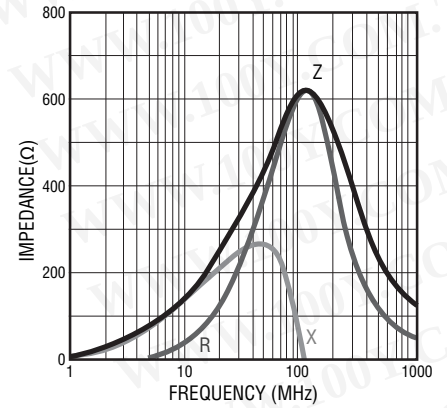
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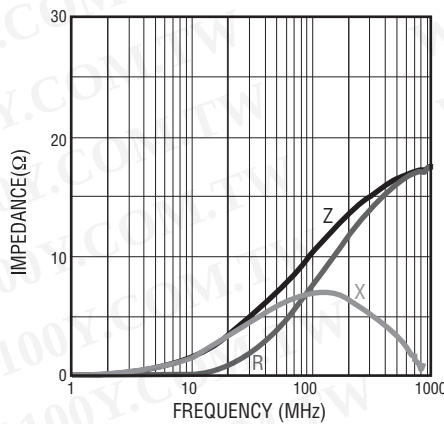
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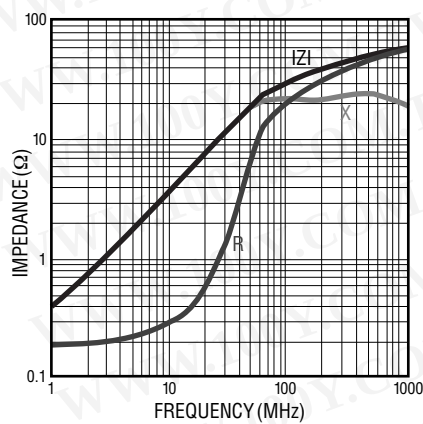
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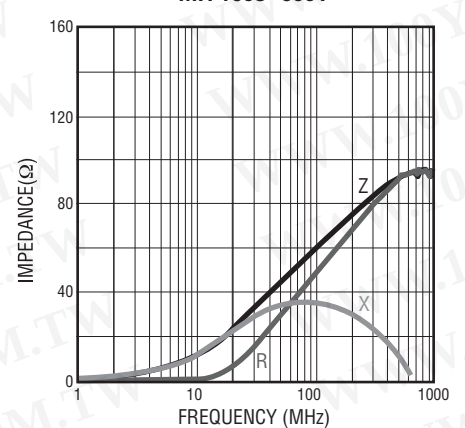
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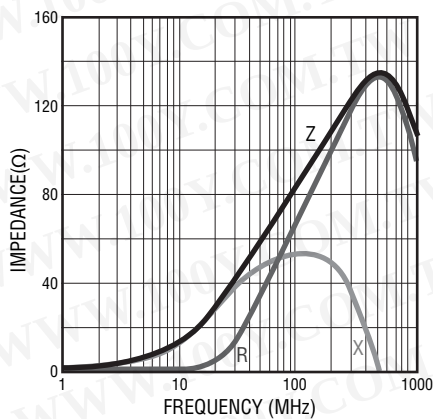
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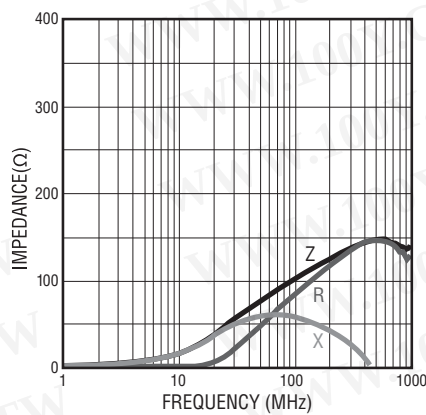
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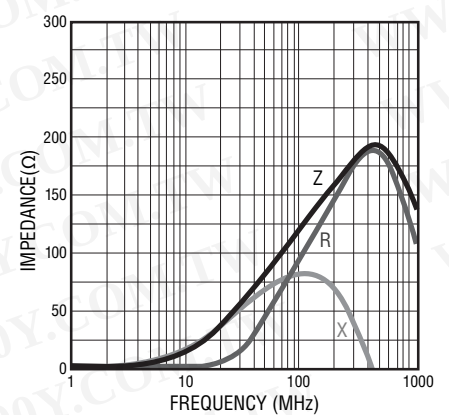
**MH 1608- 800Y**



**MH 1608- 101Y**



**MH 1608- 121Y**



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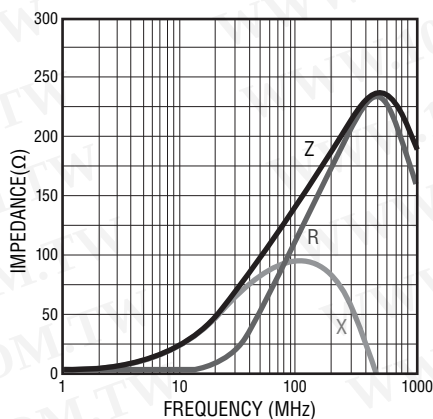
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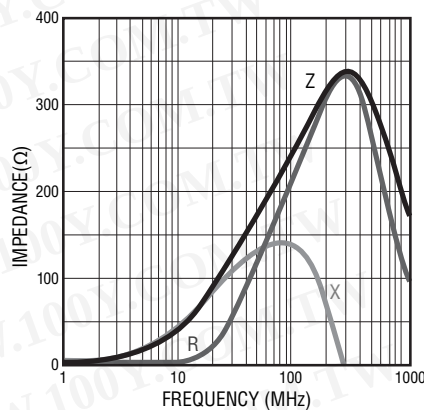
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### Electrical Specifications (continued)

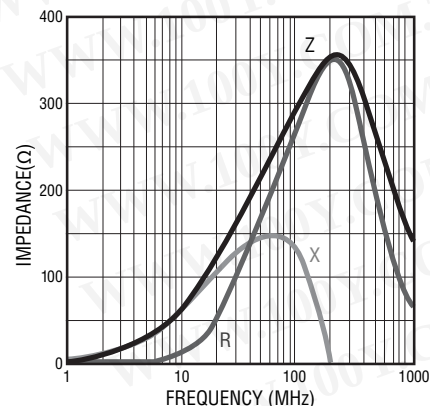
MH 1608- 151Y



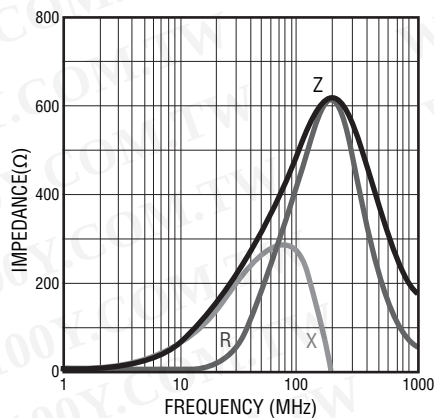
MH 1608- 221Y



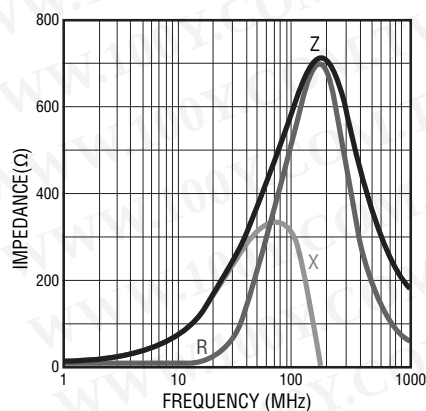
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MH 1608- 471Y



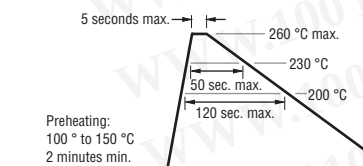
MH 1608- 601Y



### Equivalent Circuit



### Recommended Soldering



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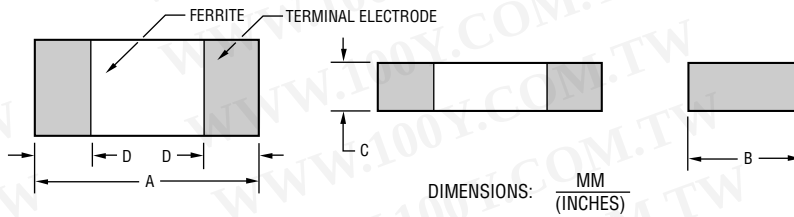
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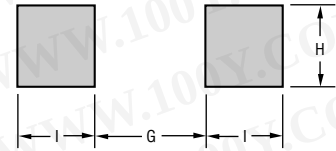
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### Product Dimensions

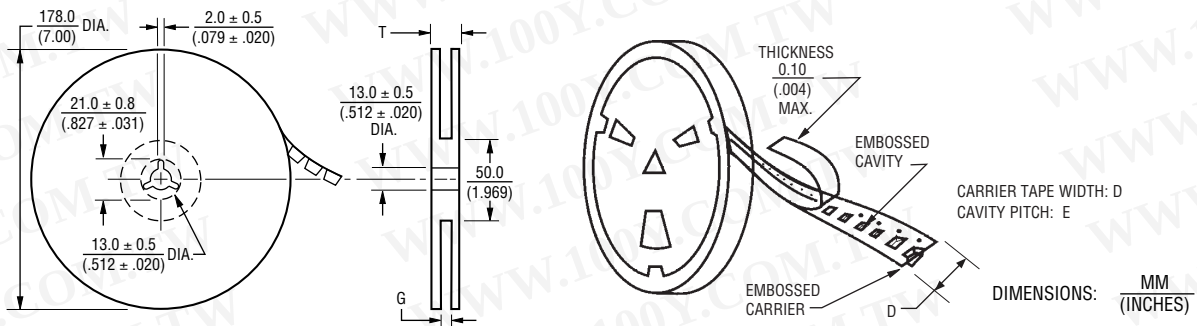


### Recommended Land Pattern



| Series | A                              | B                              | C                              | D                              | G             | H             | I             |
|--------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------|---------------|---------------|
| 4532   | $4.5 \pm 0.2$<br>(.177 ± .008) | $3.2 \pm 0.2$<br>(.126 ± .008) | $1.5 \pm 0.2$<br>(.059 ± .008) | $0.5 \pm 0.2$<br>(.020 ± .008) | 3.0<br>(.118) | 3.0<br>(.118) | 1.5<br>(.059) |
| 4516   | $4.5 \pm 0.2$<br>(.177 ± .008) | $1.6 \pm 0.2$<br>(.063 ± .008) | $1.6 \pm 0.2$<br>(.063 ± .008) | $0.5 \pm 0.2$<br>(.020 ± .008) | 3.0<br>(.118) | 1.4<br>(.055) | 1.5<br>(.059) |
| 3261   | $3.2 \pm 0.2$<br>(.126 ± .008) | $1.6 \pm 0.2$<br>(.063 ± .008) | $1.1 \pm 0.2$<br>(.043 ± .008) | $0.5 \pm 0.2$<br>(.020 ± .008) | 2.0<br>(.079) | 1.4<br>(.053) | 1.1<br>(.043) |
| 2029   | $2.0 \pm 0.2$<br>(.079 ± .008) | $1.2 \pm 0.2$<br>(.047 ± .008) | $0.9 \pm 0.2$<br>(.035 ± .008) | $0.5 \pm 0.2$<br>(.020 ± .008) | 1.0<br>(.040) | 1.0<br>(.040) | 1.0<br>(.040) |
| 1608   | $1.6 \pm 0.2$<br>(.063 ± .008) | $0.8 \pm 0.2$<br>(.031 ± .008) | $0.8 \pm 0.2$<br>(.031 ± .008) | $0.5 \pm 0.2$<br>(.020 ± .008) | 0.7<br>(.028) | 0.7<br>(.028) | 0.7<br>(.028) |

### Reel Dimensions



| Series | Pcs. per Reel | Gross Weight (g) | D                | E               | G                        | T                |
|--------|---------------|------------------|------------------|-----------------|--------------------------|------------------|
| 4532   | 1,000         | 170              | $12.0$<br>(.472) | $8.0$<br>(.315) | $14.0 + 0$<br>(.551 + 0) | $16.5$<br>(.650) |
| 4516   | 2,000         | 180              | $12.0$<br>(.472) | $8.0$<br>(.315) | $14.0 + 0$<br>(.551 + 0) | $16.5$<br>(.650) |
| 3261   | 3,000         | 150              | $8.0$<br>(.315)  | $4.0$<br>(.157) | $10.0 + 0$<br>(.394 + 0) | $12.5$<br>(.492) |
| 2029   | 4,000         | 120              | $8.0$<br>(.315)  | $4.0$<br>(.157) | $10.0 + 0$<br>(.394 + 0) | $12.5$<br>(.492) |
| 1608   | 4,000         | 90               | $8.0$<br>(.315)  | $4.0$<br>(.157) | $10.0 + 0$<br>(.394 + 0) | $12.5$<br>(.492) |

REV. 02/14

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