



## Features

- High resistance to heat and humidity
- Resistance to mechanical shock and pressure
- Accurate dimensions for automatic surface mounting
- Wide impedance range

 The model MG3261, MU3261 & MZ3261 series as well as model MZ2029-102Y are currently available but not recommended for new designs.

## Applications

- Power supply lines
- IC power lines
- Signal lines

# MG, MU, MZ Series High Impedance Chip Ferrite Beads

## Electrical Specifications

| Model Number | Impedance (Ω) at 100 MHz | RDC (Ω) Max. | IDC (mA) Max. |
|--------------|--------------------------|--------------|---------------|
| MU3261-300Y  | 30 ±25 %                 | 0.20         | 500           |
| MU3261-600Y  | 60 ±25 %                 | 0.20         | 400           |
| MU3261-750Y  | 75 ±25 %                 | 0.20         | 400           |
| MU3261-101Y  | 100 ±25 %                | 0.15         | 500           |
| MU3261-121Y  | 120 ±25 %                | 0.15         | 900           |
| MG3261-151Y  | 150 ±25 %                | 0.30         | 300           |
| MU3261-221Y  | 220 ±25 %                | 0.35         | 700           |
| MG3261-301Y  | 300 ±25 %                | 0.30         | 300           |
| MU3261-301Y  | 300 ±25 %                | 0.30         | 300           |
| MU3261-471Y  | 470 ±25 %                | 0.35         | 400           |
| MU3261-601Y  | 600 ±25 %                | 0.30         | 200           |
| MZ3261-601Y  | 600 ±25 %                | 0.30         | 200           |
| MU3261-801Y  | 800 ±25 %                | 0.60         | 300           |
| MU3261-102Y  | 1000 ±25 %               | 0.60         | 100           |
| MU3261-122Y  | 1200 ±25 % (at 50 MHz)   | 0.50         | 100           |
| MU3261-152Y  | 1500 ±25 % (at 50 MHz)   | 0.70         | 300           |
| MU3261-202Y  | 2000 ±25 % (at 30 MHz)   | 0.60         | 100           |
| MG2029-100Y  | 10 ±25 %                 | 0.20         | 400           |
| MG2029-300Y  | 30 ±25 %                 | 0.10         | 400           |
| MG2029-400Y  | 40 ±25 %                 | 0.20         | 300           |
| MU2029-600Y  | 60 ±25 %                 | 0.10         | 900           |
| MG2029-800Y  | 80 ±25 %                 | 0.20         | 300           |
| MG2029-101Y  | 100 ±25 %                | 0.20         | 400           |
| MG2029-121Y  | 120 ±25 %                | 0.25         | 300           |
| MU2029-151Y  | 150 ±25 %                | 0.20         | 800           |
| MU2029-221Y  | 220 ±25 %                | 0.30         | 500           |
| MU2029-301Y  | 300 ±25 %                | 0.30         | 500           |
| MU2029-471Y  | 470 ±25 %                | 0.35         | 700           |
| MZ2029-601Y  | 600 ±25 %                | 0.40         | 100           |
| MZ2029-601T  | 600 ±25 %                | 0.40         | 200           |
| MZ2029-102Y  | 1000 ±25 %               | 0.45         | 100           |
| MG1608-300Y  | 30 ±25 %                 | 0.20         | 200           |
| MG1608-400Y  | 40 ±25 %                 | 0.30         | 300           |
| MU1608-600Y  | 60 ±25 %                 | 0.20         | 700           |
| MG1608-800Y  | 80 ±25 %                 | 0.30         | 300           |
| MG1608-101Y  | 100 ±25 %                | 0.25         | 200           |
| MG1608-121Y  | 120 ±25 %                | 0.30         | 200           |
| MU1608-151Y  | 150 ±25 %                | 0.25         | 600           |
| MU1608-221Y  | 220 ±25 %                | 0.30         | 200           |
| MU1608-301Y  | 300 ±25 %                | 0.35         | 150           |
| MU1608-471Y  | 470 ±25 %                | 0.45         | 350           |
| MZ1608-601Y  | 600 ±25 %                | 0.45         | 100           |
| MZ1608-102Y  | 1000 ±25 %               | 0.60         | 100           |
| MU1005-100Y  | 10 ±25 %                 | 0.10         | 500           |
| MU1005-300Y  | 30 ±25 %                 | 0.20         | 300           |
| MU1005-600Y  | 60 ±25 %                 | 0.25         | 300           |
| MU1005-121Y  | 120 ±25 %                | 0.30         | 100           |
| MU1005-151Y  | 150 ±25 %                | 0.30         | 100           |
| MU1005-221Y  | 220 ±25 %                | 0.40         | 100           |
| MU1005-241Y  | 240 ±25 %                | 0.60         | 100           |
| MU1005-301Y  | 300 ±25 %                | 0.50         | 100           |
| MU1005-471Y  | 470 ±25 %                | 0.65         | 100           |
| MU1005-601Y  | 600 ±25 %                | 0.80         | 80            |
| MU1005-102Y  | 1000 ±25 %               | 1.20         | 80            |

## 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 seconds 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)  
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

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

Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

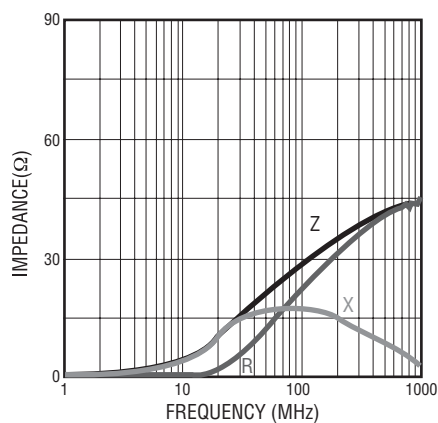
Users should verify actual device performance in their specific applications.

# MG, MU, MZ Series High Impedance Chip Ferrite Beads

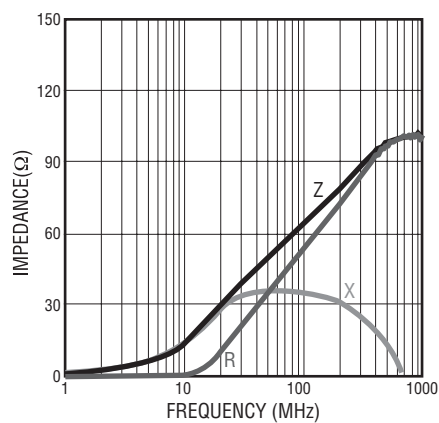
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## Electrical Specifications (continued)

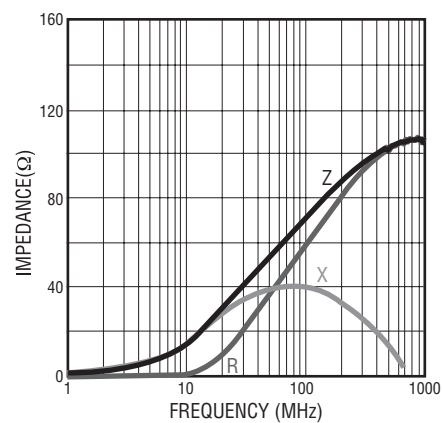
**MU 3261- 300Y**



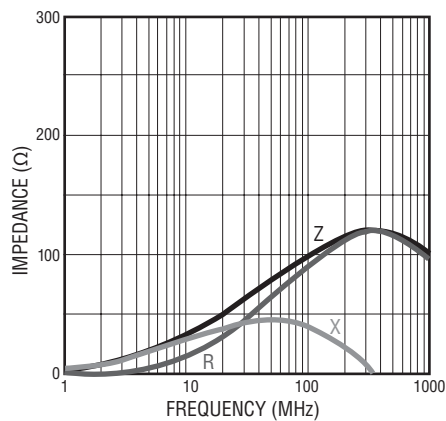
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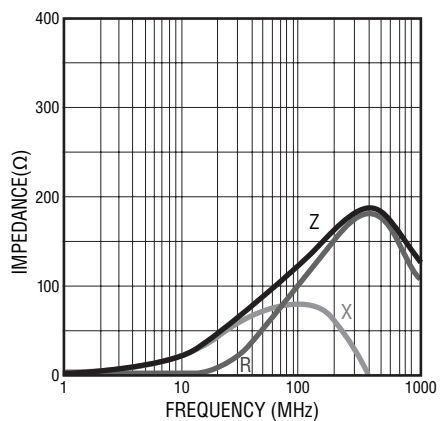
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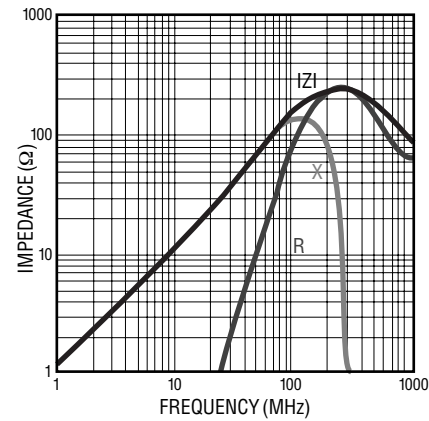
**MU 3261- 101Y**



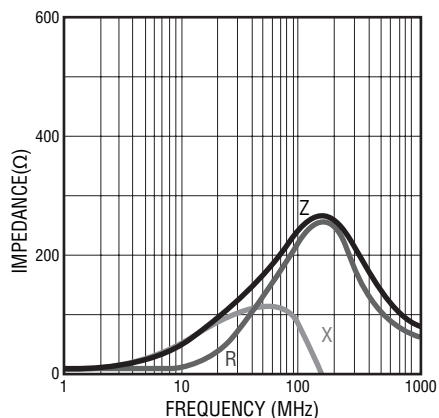
**MU 3261- 121Y**



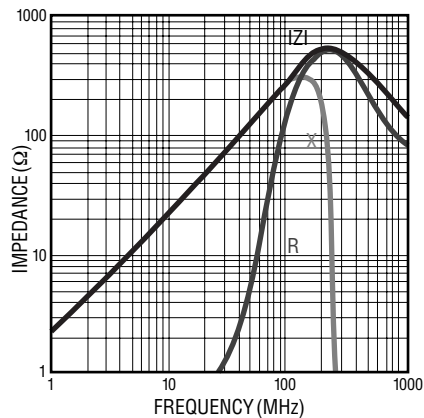
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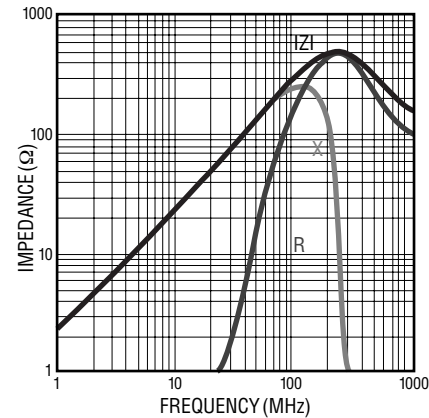
**MU 3261- 221Y**



**MG 3261- 301Y**



**MU 3261- 301Y**



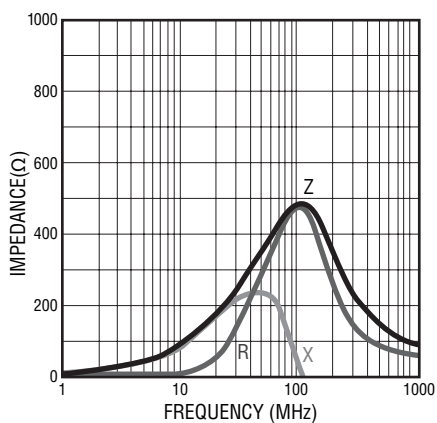
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# MG, MU, MZ Series High Impedance Chip Ferrite Beads

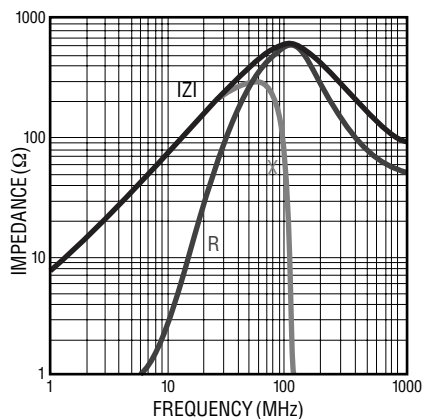
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## Electrical Specifications (continued)

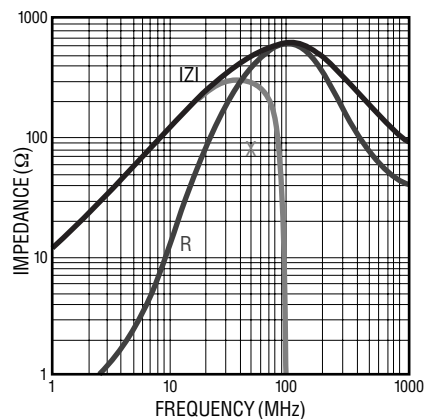
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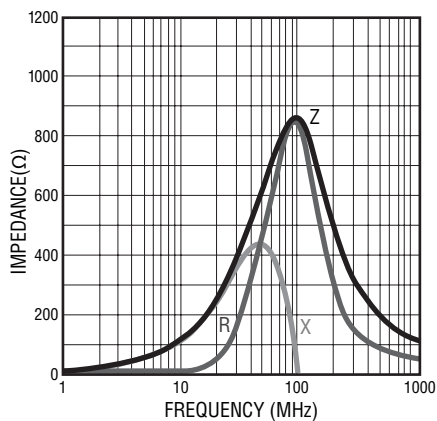
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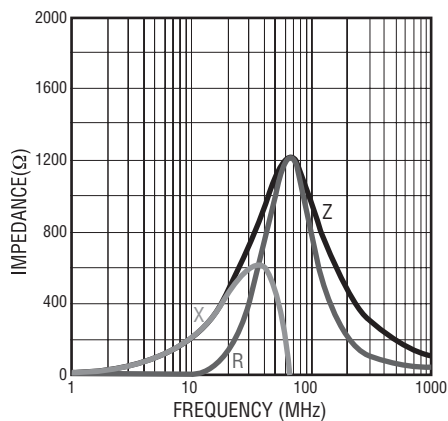
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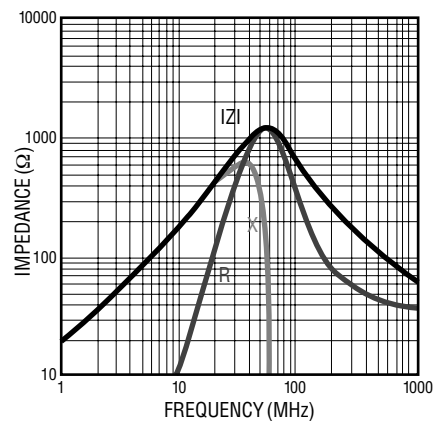
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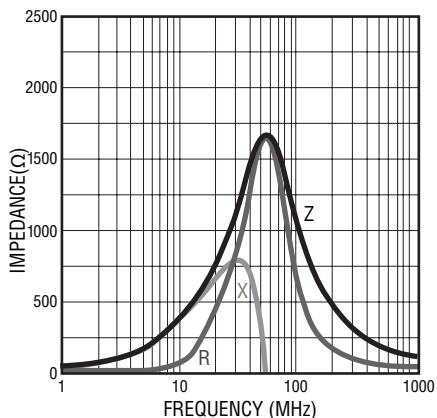
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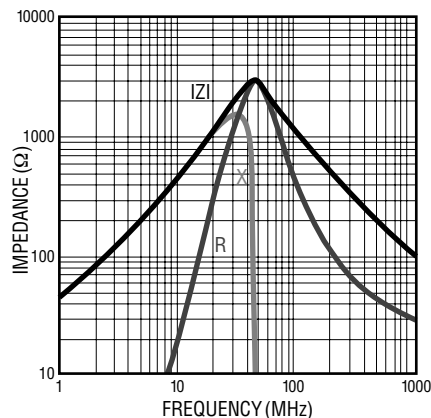
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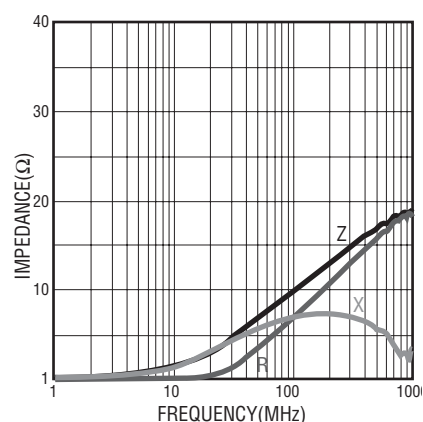
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**MU 3261- 202Y**



**MG 2029- 100Y**



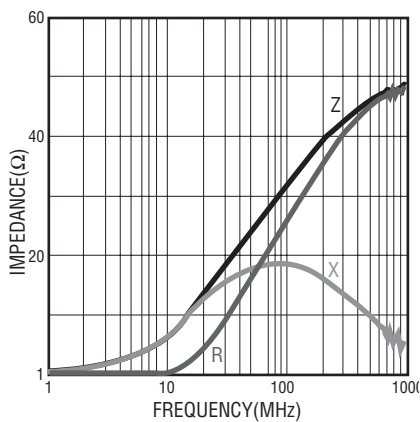
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# MG, MU, MZ Series High Impedance Chip Ferrite Beads

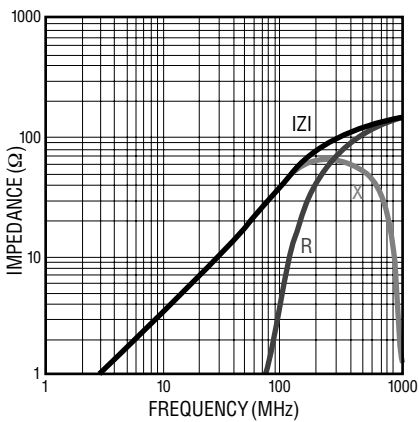
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## Electrical Specifications (continued)

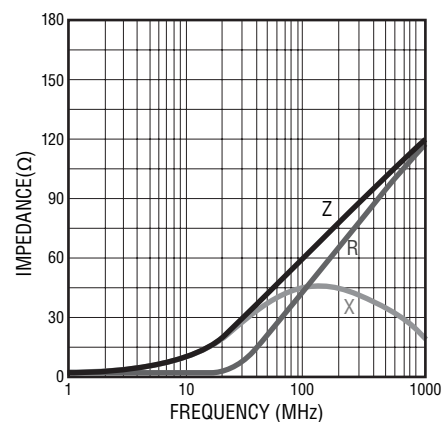
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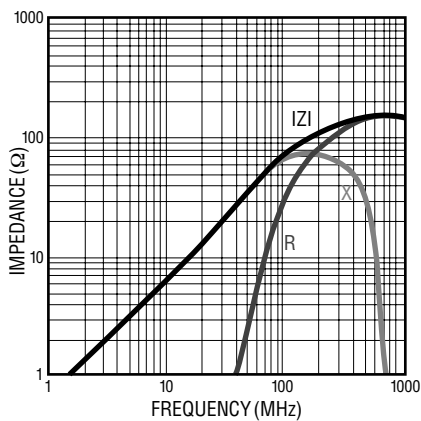
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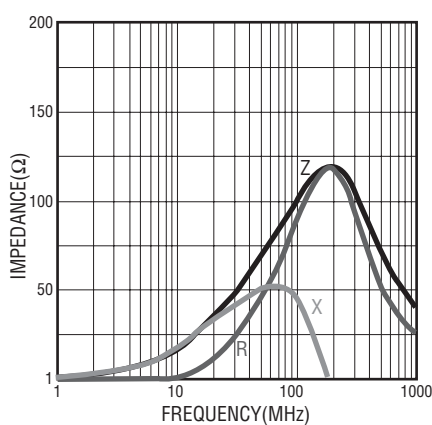
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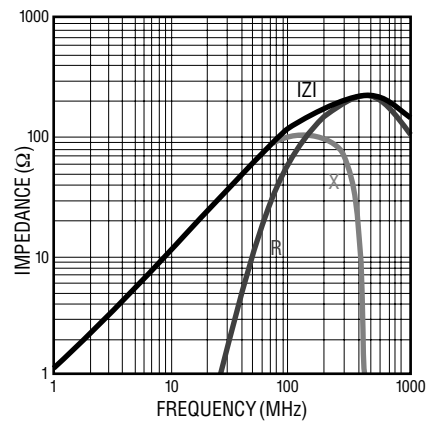
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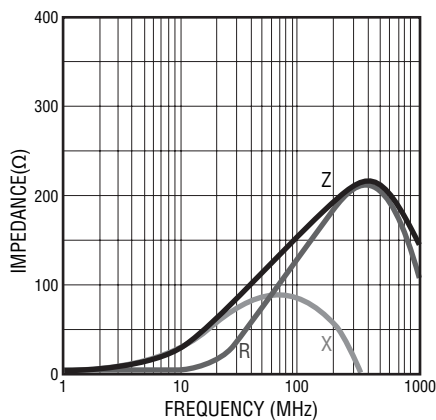
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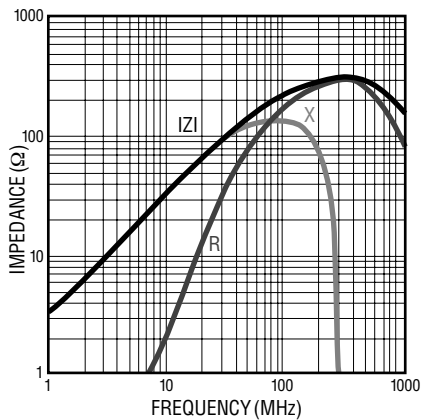
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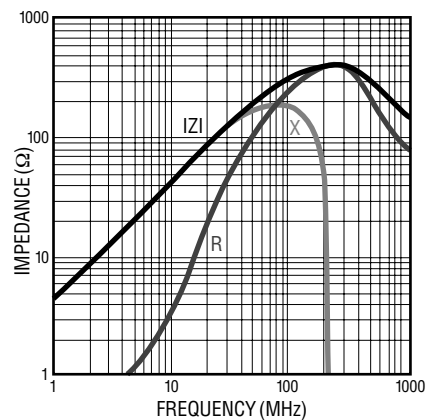
**MU 2029- 151Y**



**MU 2029- 221Y**



**MU 2029- 301Y**



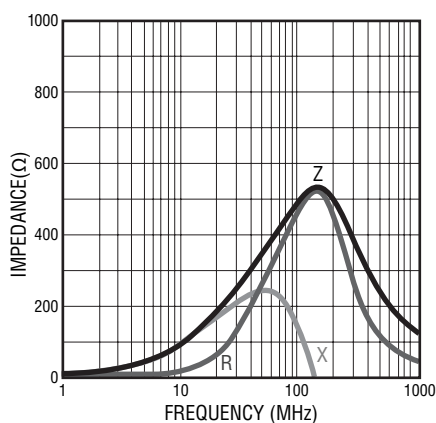
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# MG, MU, MZ Series High Impedance Chip Ferrite Beads

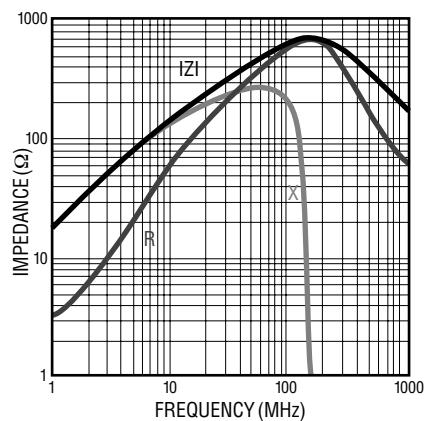
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## Electrical Specifications (continued)

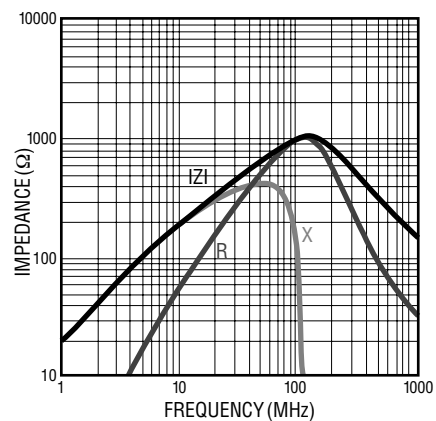
**MU 2029- 471Y**



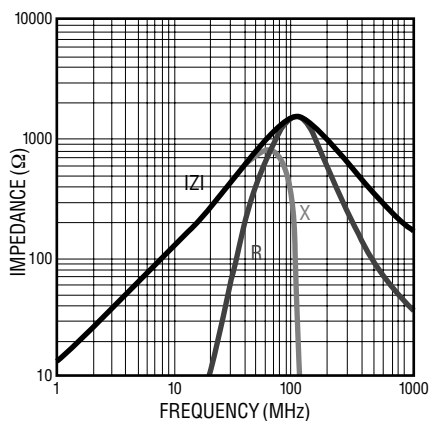
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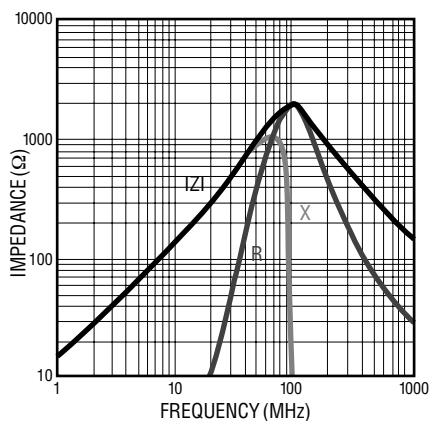
**MZ 2029- 102Y**



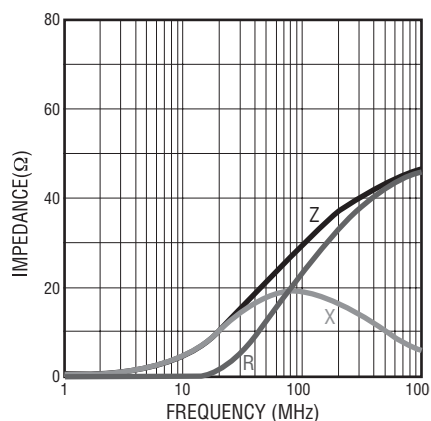
**MG 2029- 152Y**



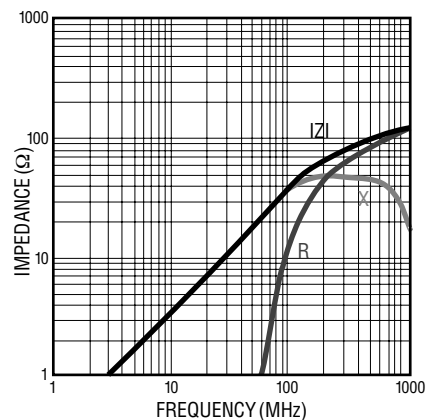
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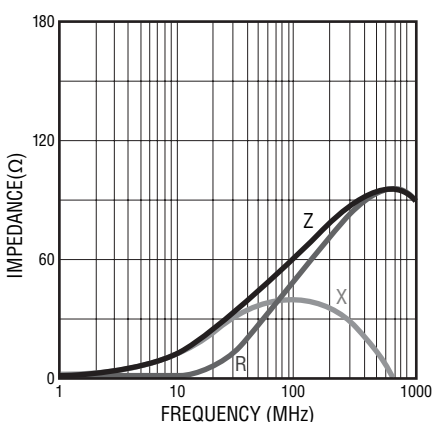
**MU 1608- 300Y**



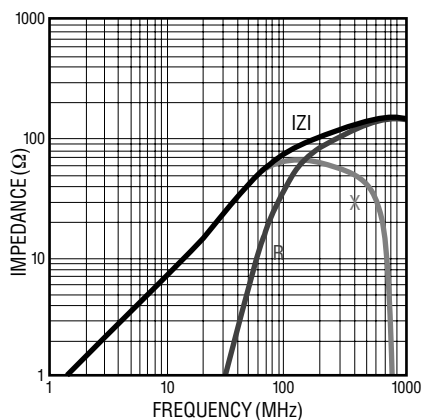
**MG 1608- 400Y**



**MU 1608- 600Y**



**MG 1608- 800Y**



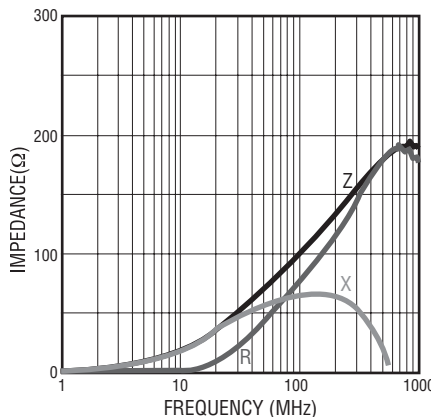
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# MG, MU, MZ Series High Impedance Chip Ferrite Beads

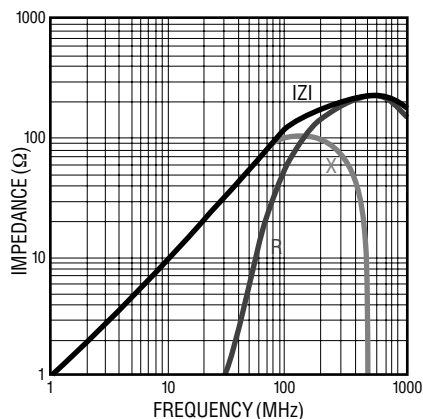
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## Electrical Specifications (continued)

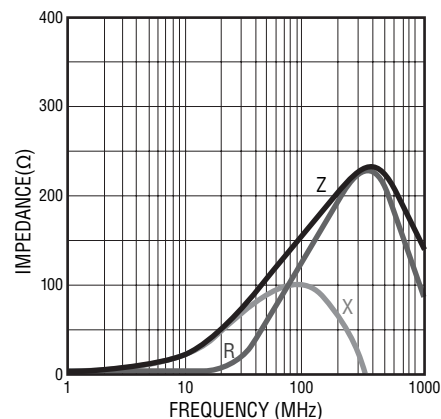
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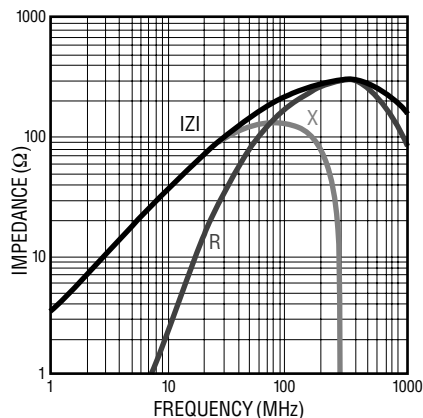
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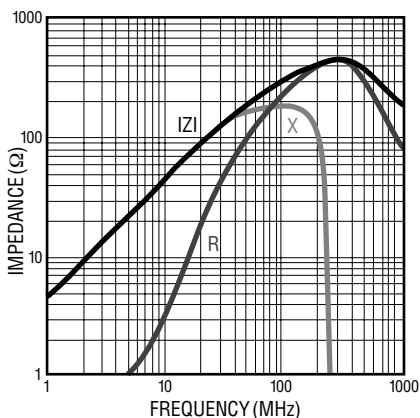
**MU 1608- 151Y**



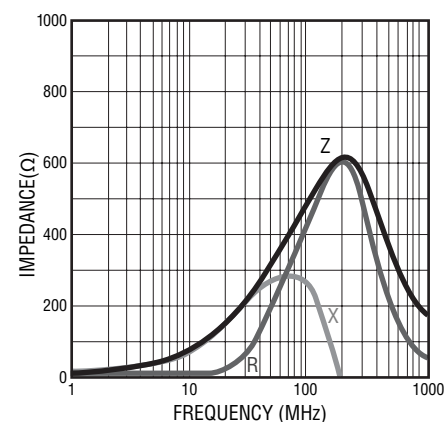
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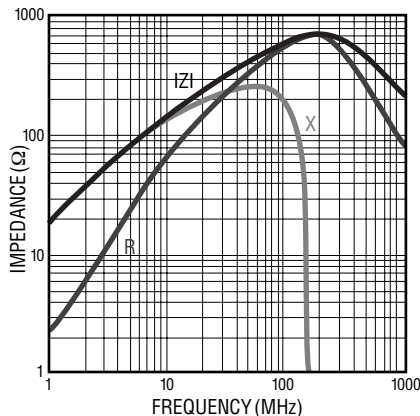
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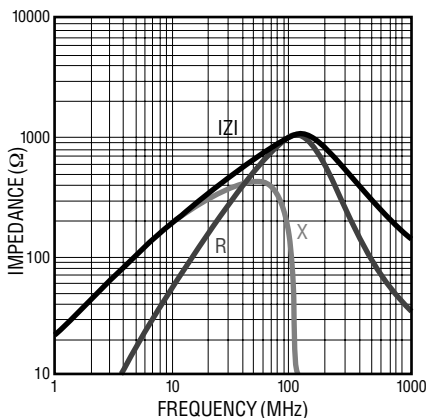
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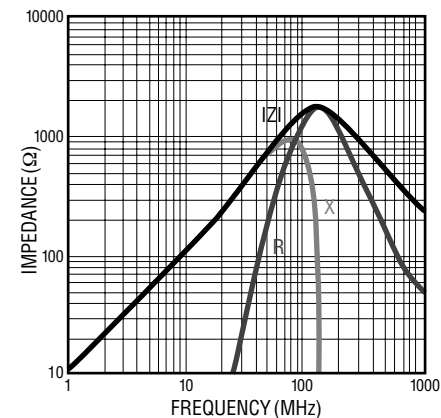
**MZ 1608- 601Y**



**MZ 1608- 102Y**



**MG 1608- 152Y**

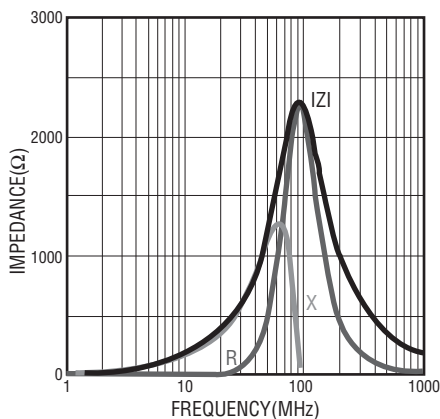


# MG, MU, MZ Series High Impedance Chip Ferrite Beads

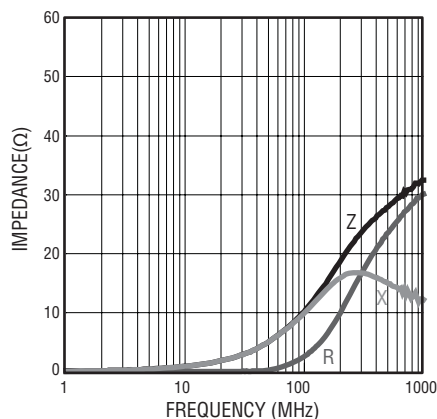
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## Electrical Specifications (continued)

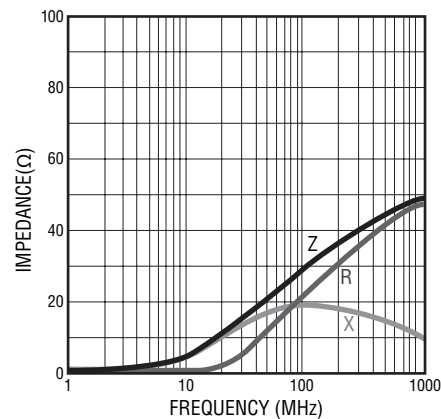
**MZ 1608- 222Y**



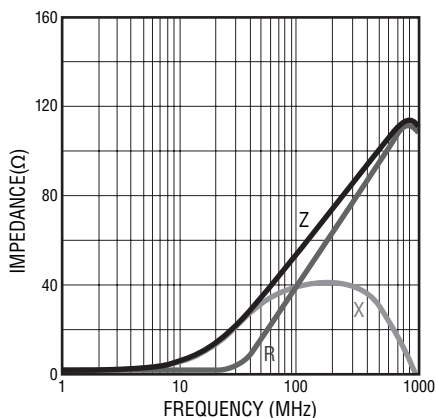
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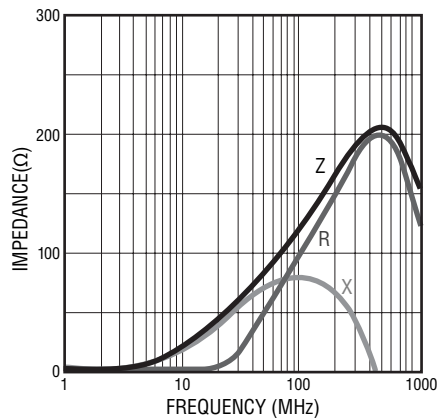
**MU 1005- 300Y**



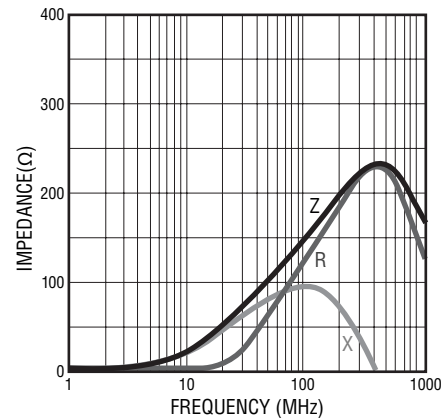
**MU 1005- 600Y**



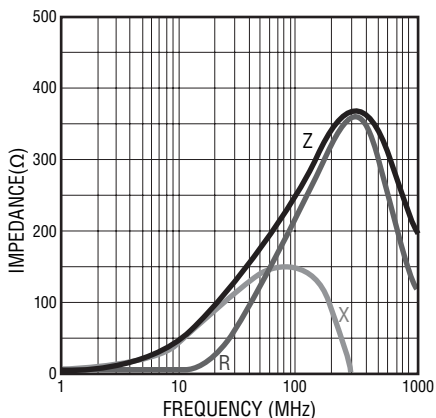
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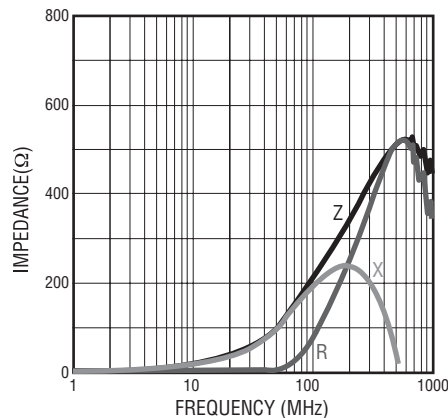
**MU 1005- 151Y**



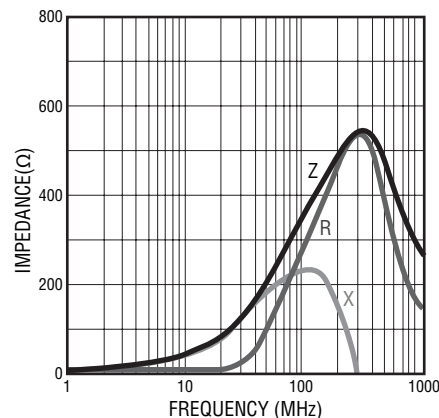
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**MU 1005- 241Y**



**MU 1005- 301Y**



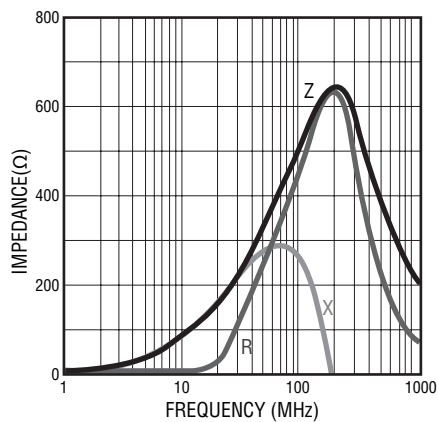
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# MG, MU, MZ Series High Impedance Chip Ferrite Beads

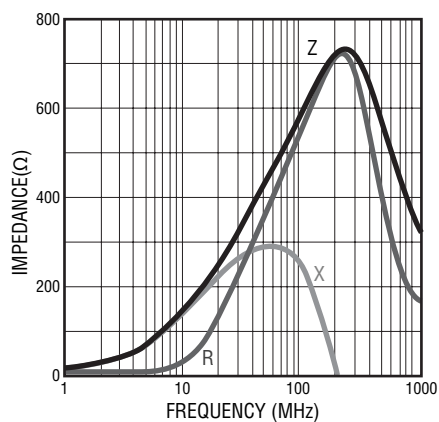
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## Electrical Specifications (continued)

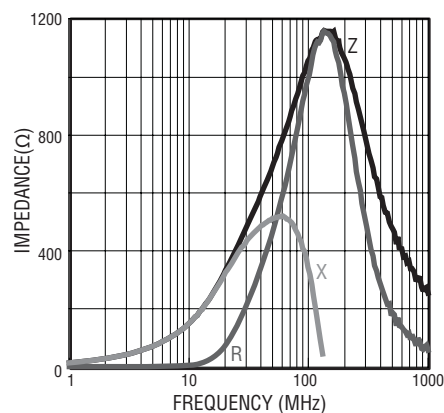
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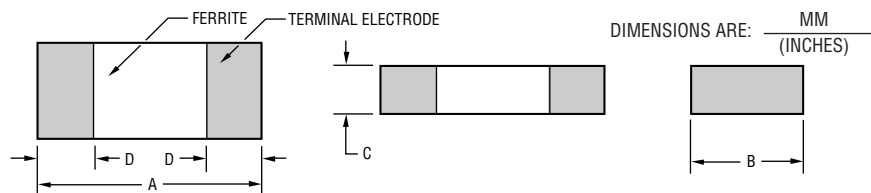
**MU 1005- 601Y**



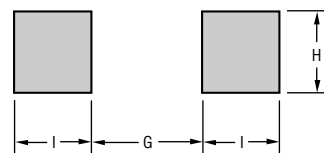
**MU 1005- 102Y**



## Product Dimensions



## Recommended Land Pattern



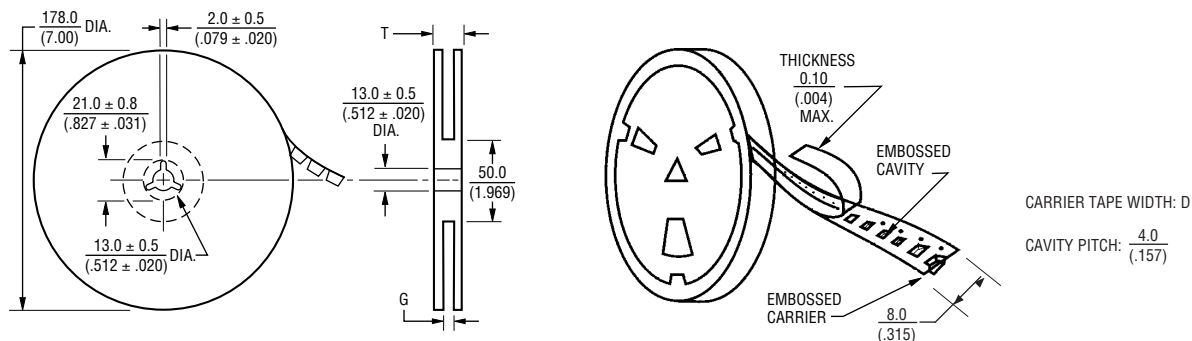
| Series | A                                     | B                                      | C                                      | D                                      | G                    | H                     | I                    |
|--------|---------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------|-----------------------|----------------------|
| 3261   | $\frac{3.2 \pm 0.2}{(.126 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$  | $\frac{1.1 \pm 0.2}{(.043 \pm .008)}$  | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$  | $\frac{2.0}{(.079)}$ | $\frac{1.4}{(.053)}$  | $\frac{1.1}{(.043)}$ |
| 2029   | $\frac{2.0 \pm 0.2}{(.079 \pm .008)}$ | $\frac{1.2 \pm 0.2}{(.047 \pm .008)}$  | $\frac{0.9 \pm 0.2}{(.035 \pm .008)}$  | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$  | $\frac{1.0}{(.040)}$ | $\frac{1.0}{(.040)}$  | $\frac{1.0}{(.040)}$ |
| 1608   | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{0.8 \pm 0.2}{(.031 \pm .008)}$  | $\frac{0.8 \pm 0.2}{(.031 \pm .008)}$  | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$  | $\frac{0.7}{(.028)}$ | $\frac{0.7}{(.028)}$  | $\frac{0.7}{(.028)}$ |
| 1005   | $\frac{1.0 \pm 0.10}{(.04 \pm .004)}$ | $\frac{0.50 \pm 0.10}{(.02 \pm .004)}$ | $\frac{0.50 \pm 0.10}{(.02 \pm .004)}$ | $\frac{0.25 \pm 0.10}{(.01 \pm .004)}$ | $\frac{0.5}{(.02)}$  | $\frac{0.55}{(.022)}$ | $\frac{0.7}{(.028)}$ |



# MG, MU, MZ Series High Impedance Chip Ferrite Beads

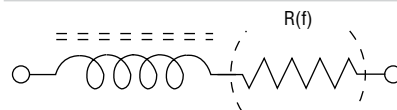
**BOURNS®**

## Reel Dimensions



| Series | Pcs. per Reel | Gross Weight (g) | D                    | G                                 | T                     |
|--------|---------------|------------------|----------------------|-----------------------------------|-----------------------|
| 3261   | 3,000         | 150              | $\frac{8.0}{(.315)}$ | $\frac{10.0 \pm 0}{(.394 \pm 0)}$ | $\frac{12.5}{(.492)}$ |
| 2029   | 4,000         | 120              |                      |                                   |                       |
| 1608   | 4,000         | 90               |                      |                                   |                       |
| 1005   | 10,000        | 135              |                      |                                   |                       |

## Equivalent Circuit



## Recommended Soldering

