



Features

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

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.
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
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 sec. max.
Resistance to Soldering Heat +260 °C, 5 seconds
Rated Current.....Based on maxtemperature rise of +40 °C
Terminal Strength
(Force "F" applied for 30 seconds)
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.

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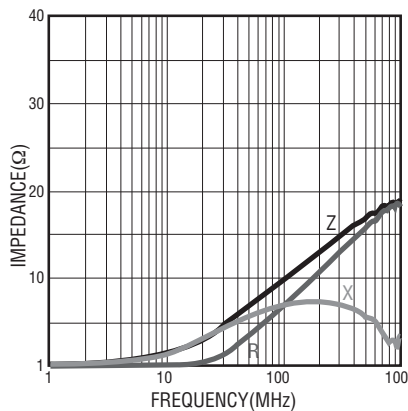
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MG, MU, MZ Series High Impedance Chip Ferrite Beads

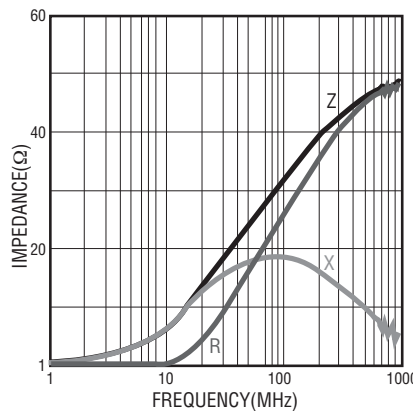
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Electrical Specifications (continued)

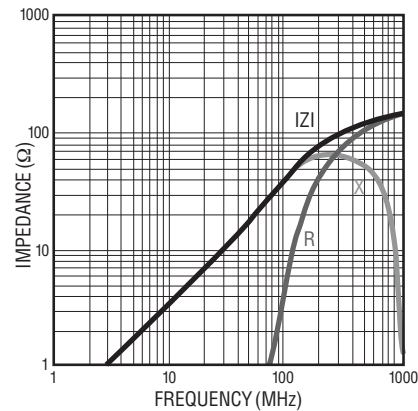
MG 2029- 100Y



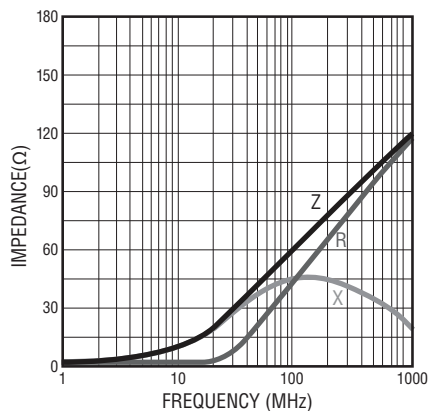
MG 2029- 300Y



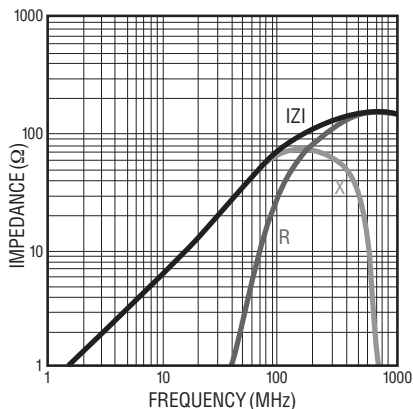
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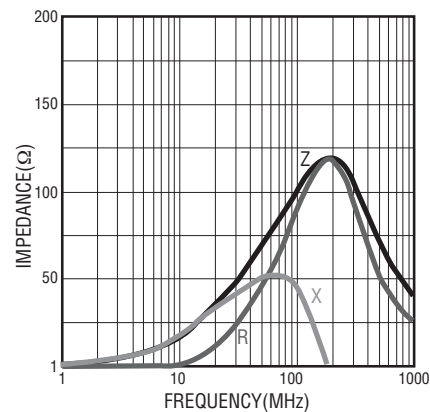
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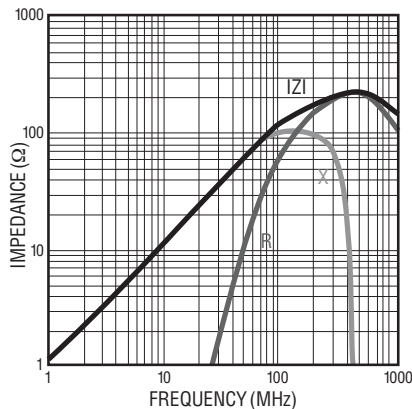
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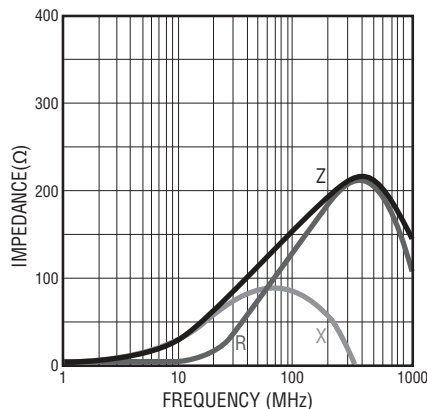
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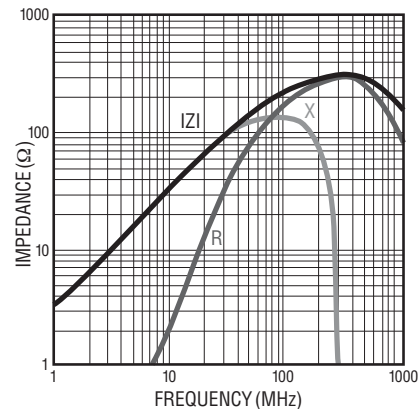
MG 2029- 121Y



MU 2029- 151Y



MU 2029- 221Y



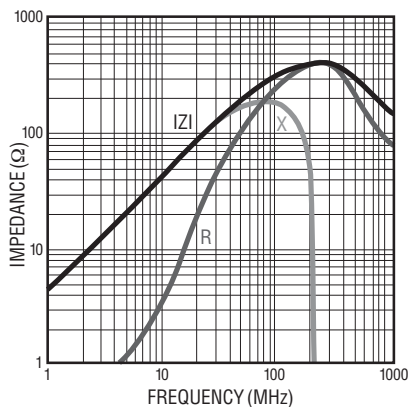
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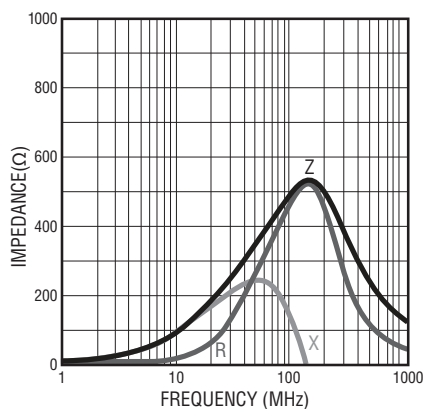
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Electrical Specifications (continued)

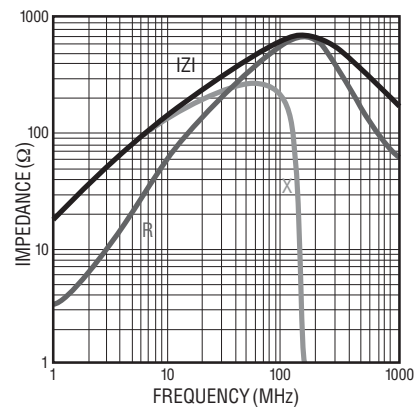
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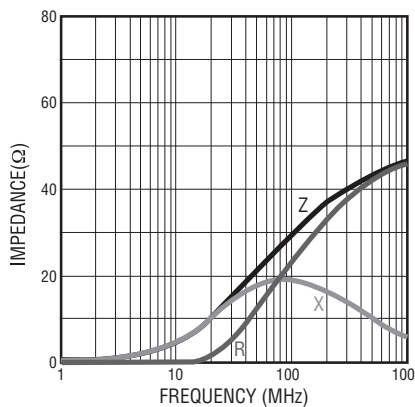
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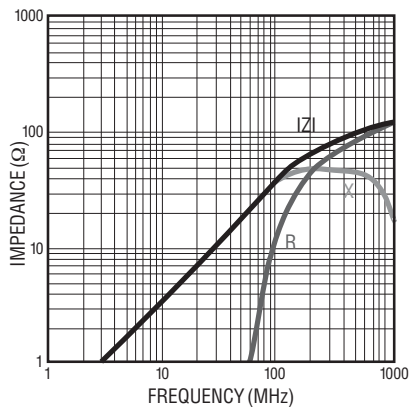
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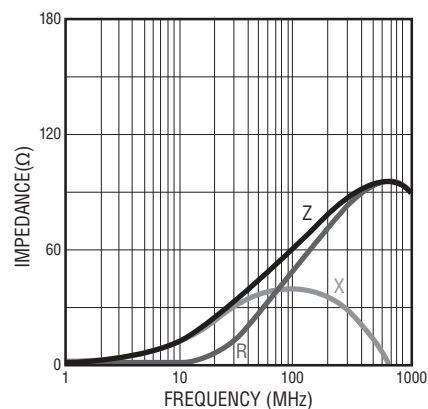
MU 1608- 300Y



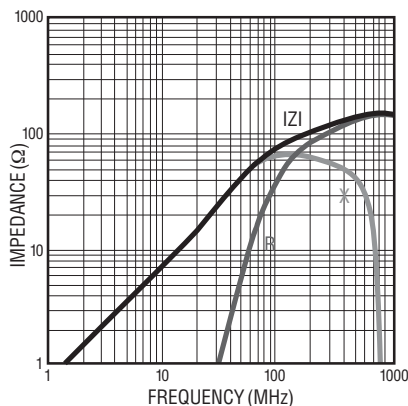
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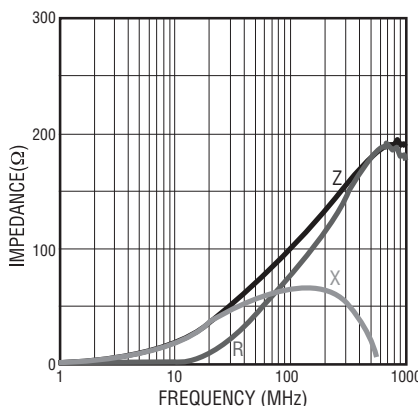
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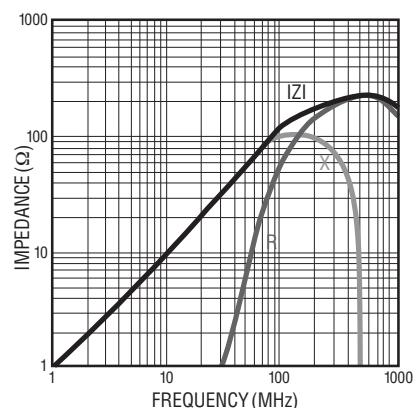
MG 1608- 800Y



MG 1608- 101Y



MG 1608- 121Y



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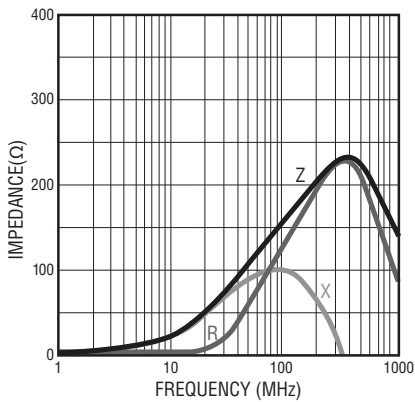
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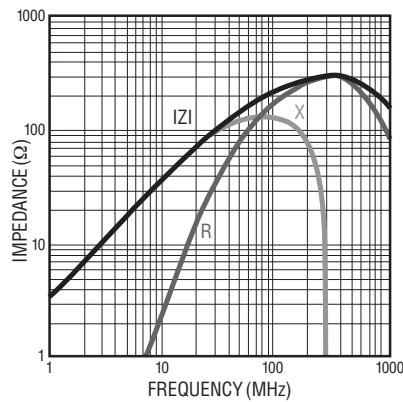
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Electrical Specifications (continued)

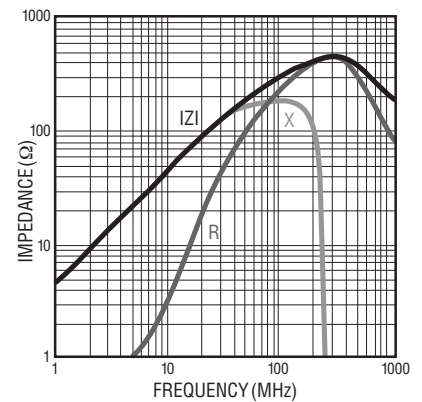
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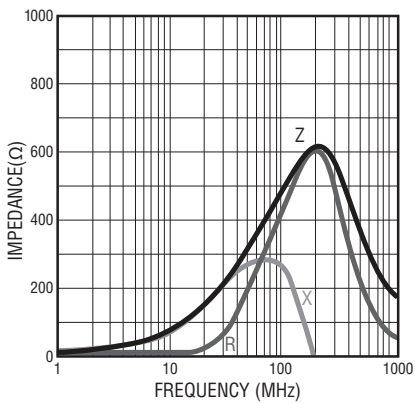
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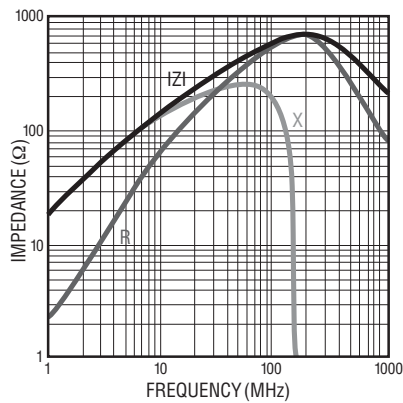
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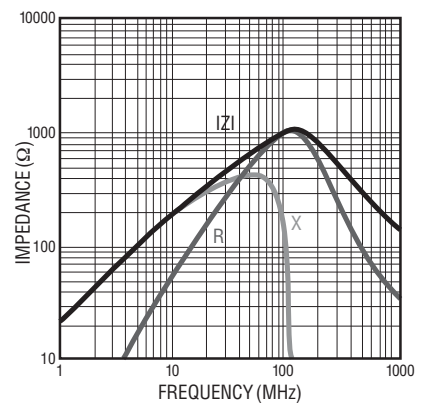
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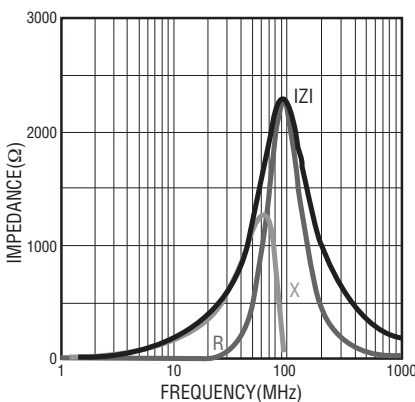
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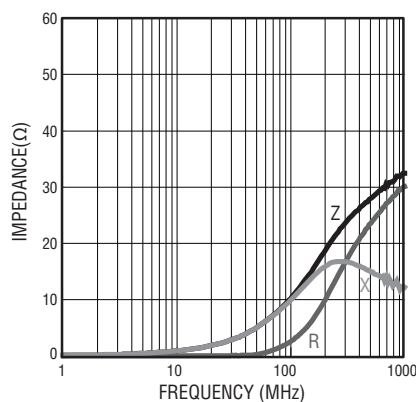
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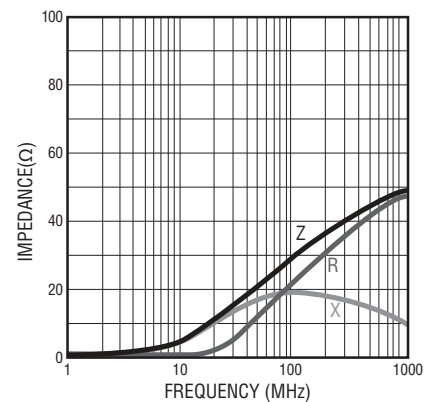
MZ 1608- 222Y



MU 1005- 100Y



MU 1005- 300Y



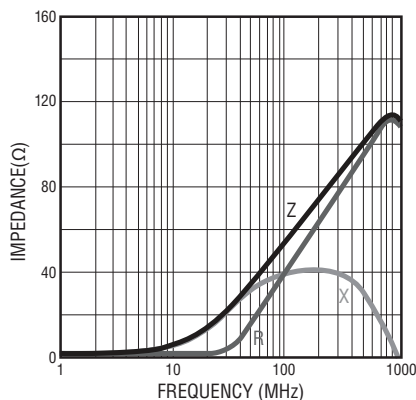
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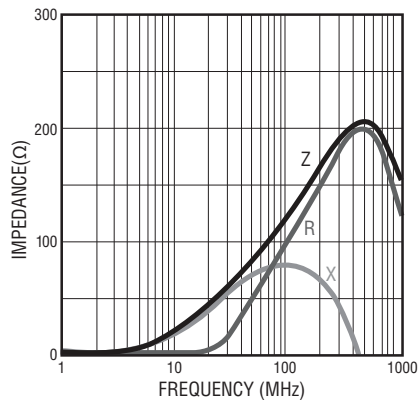
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Electrical Specifications (continued)

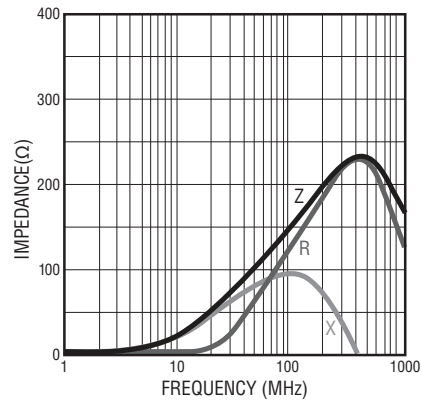
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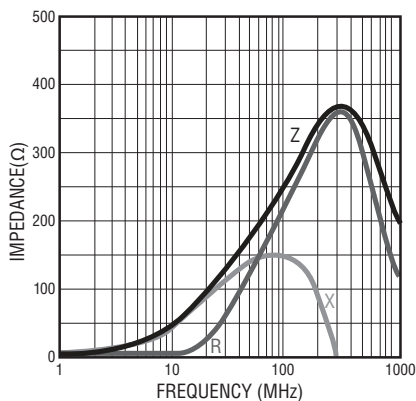
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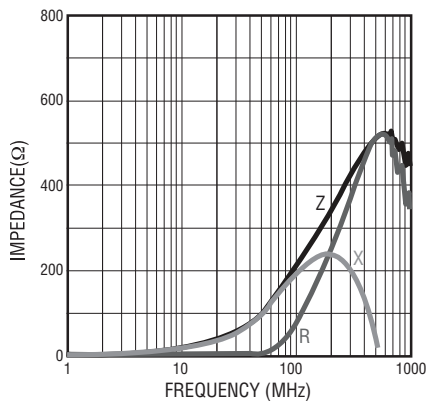
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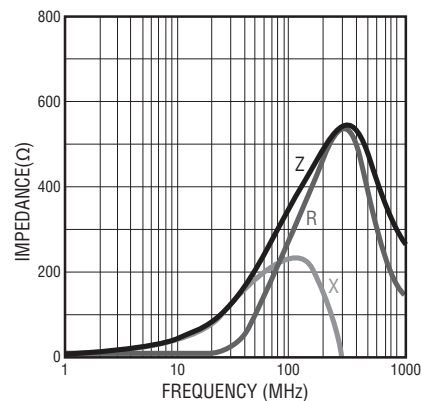
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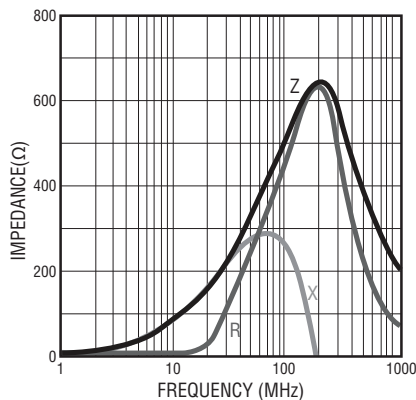
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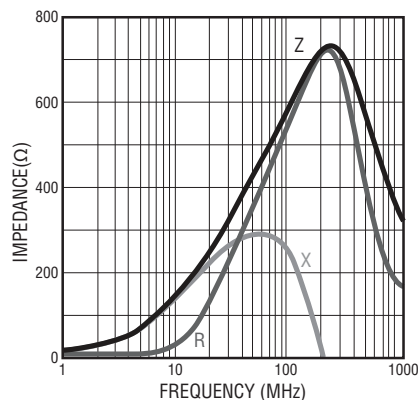
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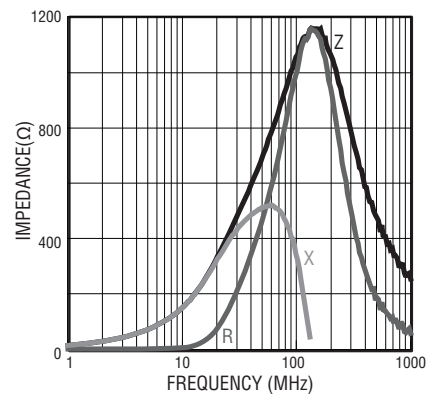
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MU 1005- 601Y



MU 1005- 102Y



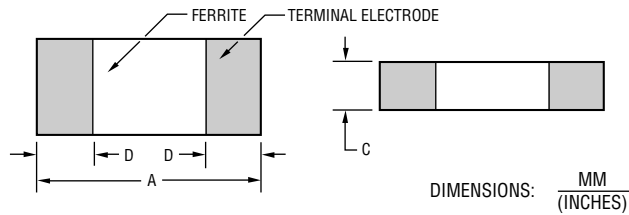
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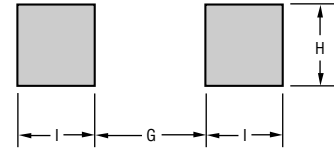
MG, MU, MZ Series High Impedance Chip Ferrite Beads

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Product Dimensions

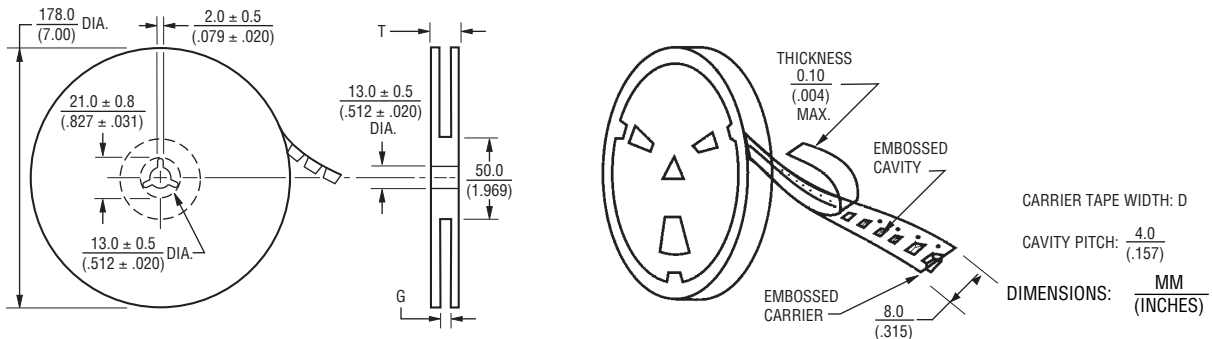


Recommended Land Pattern



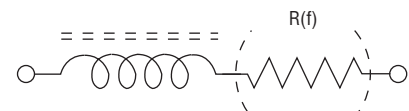
Series	A	B	C	D	G	H	I
2029	$\frac{2.0 \pm 0.2}{(.079 \pm .008)}$	$\frac{1.2 \pm 0.2}{(.047 \pm .008)}$	$\frac{0.9 \pm 0.2}{(.035 \pm .008)}$	$\frac{0.5 \pm 0.2}{(.020 \pm .008)}$	$\frac{1.0}{(.040)}$	$\frac{1.0}{(.040)}$	$\frac{1.0}{(.040)}$
1608	$\frac{1.6 \pm 0.15}{(.063 \pm .006)}$	$\frac{0.8 \pm 0.2}{(.031 \pm .008)}$	$\frac{0.8 \pm 0.2}{(.031 \pm .008)}$	$\frac{0.3 \pm 0.2}{(.012 \pm .008)}$	$\frac{0.7}{(.028)}$	$\frac{0.7}{(.028)}$	$\frac{0.7}{(.028)}$
1005	$\frac{1.0 \pm 0.10}{(.039 \pm .004)}$	$\frac{0.5 \pm 0.1}{(.020 \pm .004)}$	$\frac{0.5 \pm 0.1}{(.020 \pm .004)}$	$\frac{0.25 \pm 0.1}{(.010 \pm .004)}$	$\frac{0.5}{(.020)}$	$\frac{0.55}{(.022)}$	$\frac{0.7}{(.028)}$

Reel Dimensions

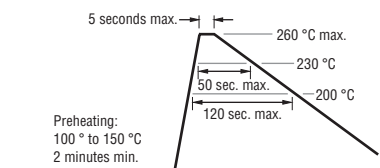


Series	Pcs. per Reel	Gross Weight (g)	D	G	T
2029	4,000	120	$\frac{8.0}{(.315)}$	$\frac{10.0 \pm 0}{(.394 \pm 0)}$	$\frac{12.5}{(.492)}$
1608	4,000	90			
1005	10,000	135			

Equivalent Circuit



Recommended Soldering



REV. 12/14

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Mouser Electronics

Authorized Distributor

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Bourns:

[MG2029-800Y](#) [MG2029-100Y](#) [MG2029-152Y](#) [MG2029-400Y](#) [MG1608-800Y](#) [MG3261-121Y](#) [MG1608-121Y](#)
[MG1608-220Y](#) [MG2029-121Y](#) [MG1608-400Y](#) [MG2029-222Y](#) [MZ3261-202Y](#) [MZ1608-102Y](#) [MUBEAD-LAB1](#)
[MZ2029-152Y](#) [MZ2029-202Y](#) [MG1608-152Y](#) [MG2029-202Y](#) [MG1608-252Y](#) [MG2029-101Y](#) [MG2029-300Y](#) [MZ1608-](#)
[222Y](#) [MZ2029-401Y](#) [MZ1608-152Y](#) [MU1005-121Y](#) [MU1005-151Y](#) [MU1005-221Y](#) [MU1005-300Y](#) [MU1005-301Y](#)
[MU1005-471Y](#) [MU1005-600Y](#) [MU1005-601Y](#) [MU1608-151Y](#) [MU1608-471Y](#) [MU1608-600Y](#) [MU2029-151Y](#) [MU2029-](#)
[471Y](#) [MU2029-600Y](#) [MZ2029-601T](#) [MU1608-221Y](#) [MU1608-301Y](#) [MU2029-221Y](#) [MU2029-301Y](#) [MZ2029-601Y](#)
[MZ1608-601Y](#) [MZ3261-122Y](#) [MG1608-300Y](#) [MU1005-100Y](#) [MU1005-102Y](#) [MU1005-241Y](#) [MU2029-601Y](#) [MZ2029-](#)
[252Y](#) [MG1608-101Y](#)