



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 max
.....temperature 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 MaterialFerrite

Internal Conductor.....Ag or Ag/Pd

TerminalAg/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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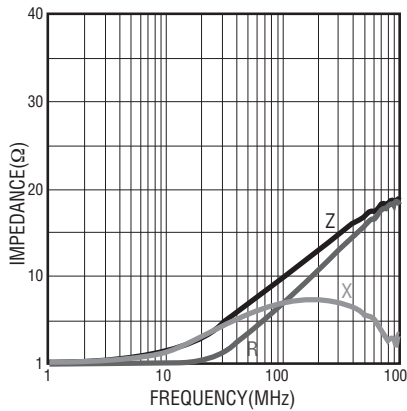
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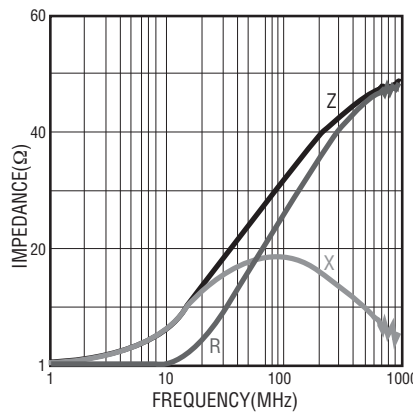
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Electrical Specifications (continued)

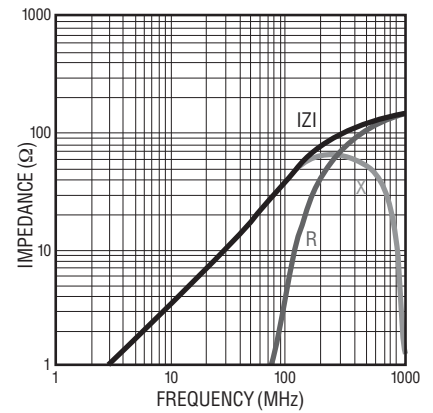
MG 2029- 100Y



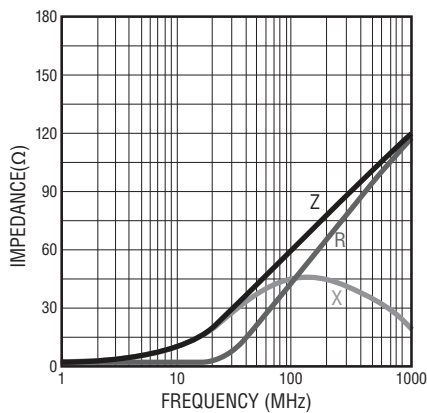
MG 2029- 300Y



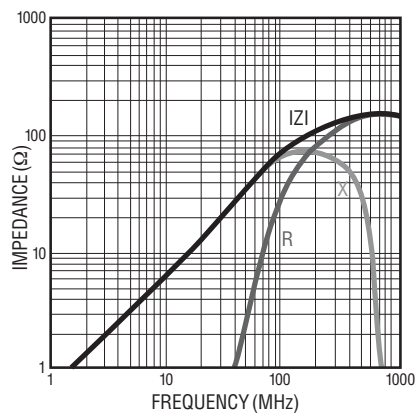
MG 2029- 400Y



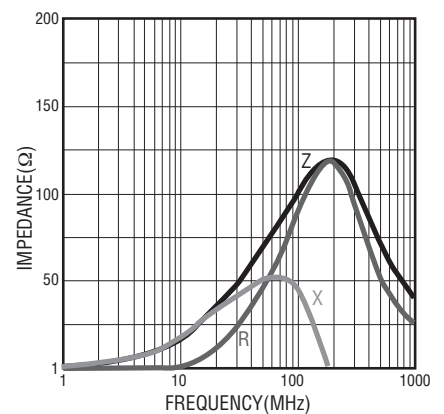
MU 2029- 600Y



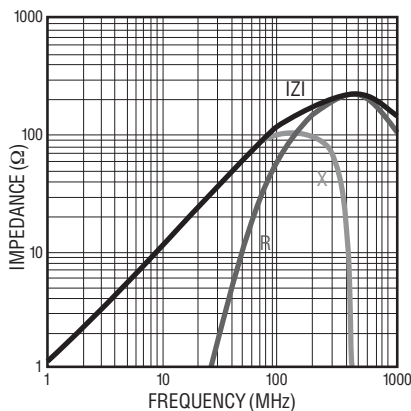
MG 2029- 800Y



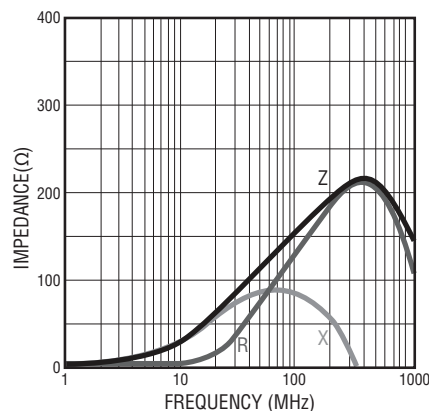
MG 2029- 101Y



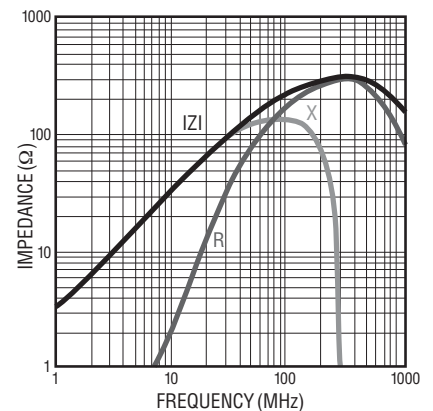
MG 2029- 121Y



MU 2029- 151Y



MU 2029- 221Y



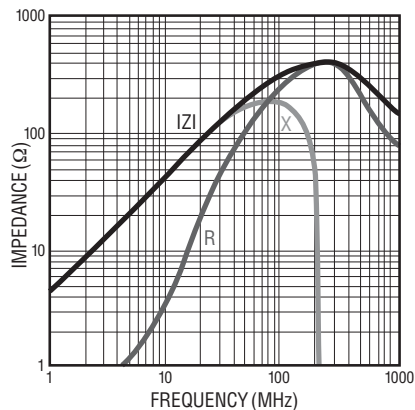
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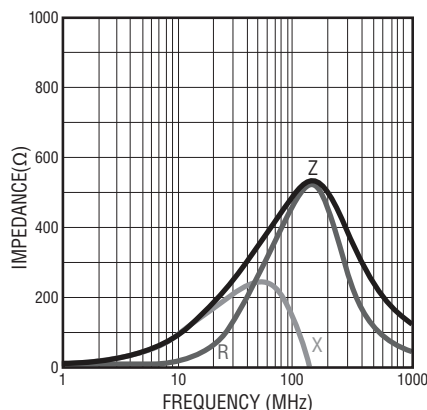
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Electrical Specifications (continued)

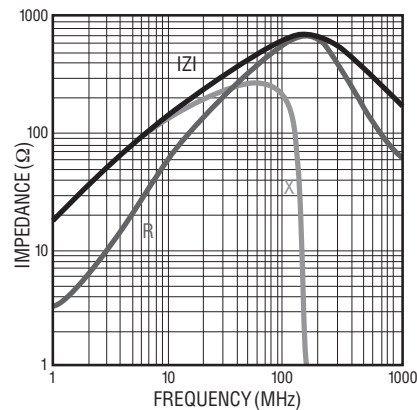
MU 2029- 301Y



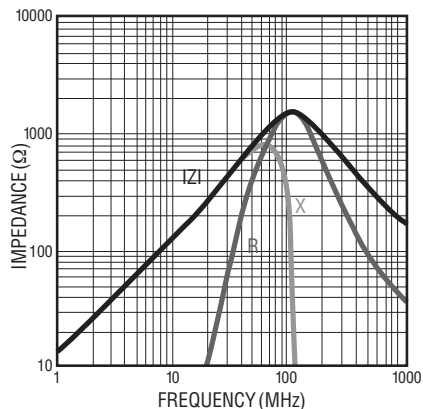
MU 2029- 471Y



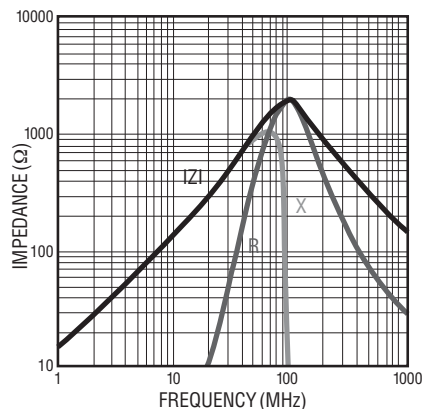
MZ 2029- 601Y



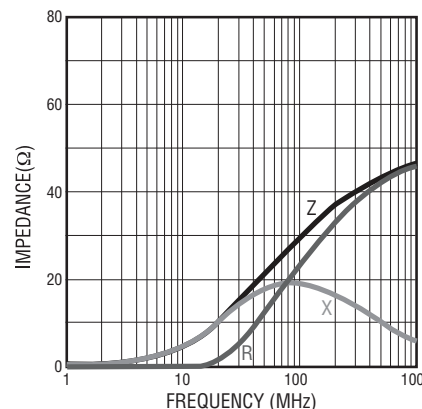
MG 2029- 152Y



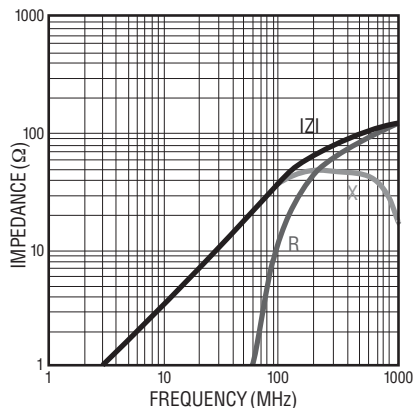
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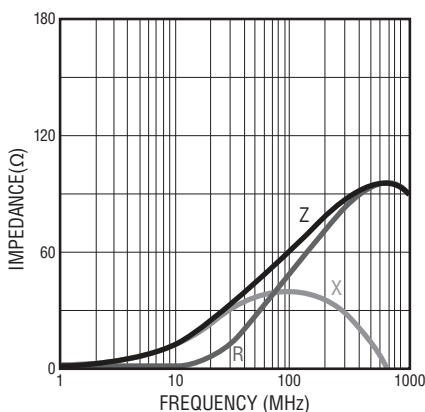
MU 1608- 300Y



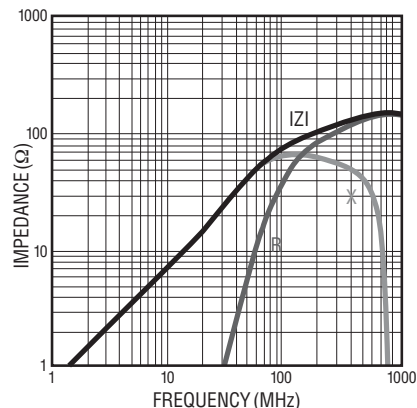
MG 1608- 400Y



MU 1608- 600Y



MG 1608- 800Y



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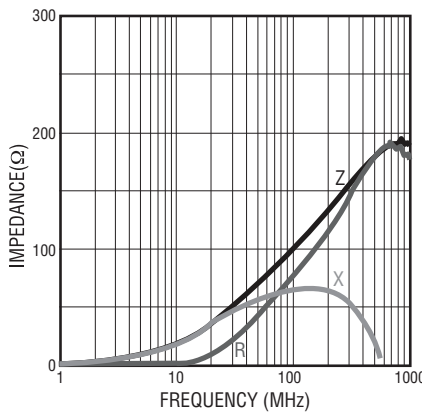
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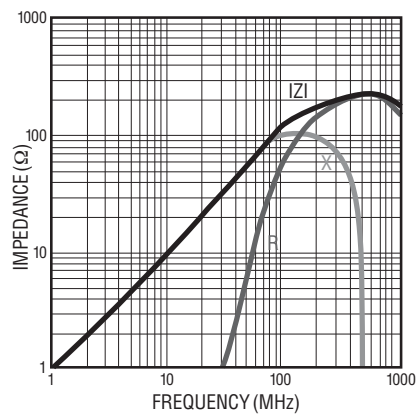
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Electrical Specifications (continued)

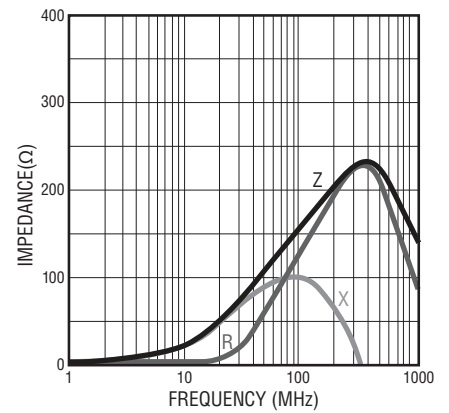
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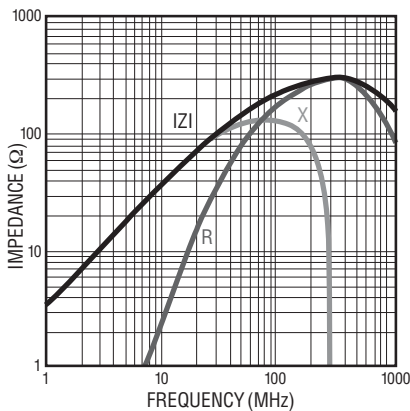
MG 1608- 121Y



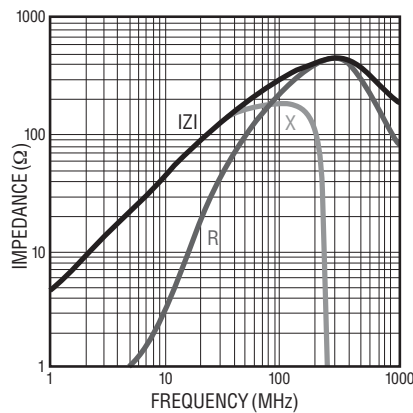
MU 1608- 151Y



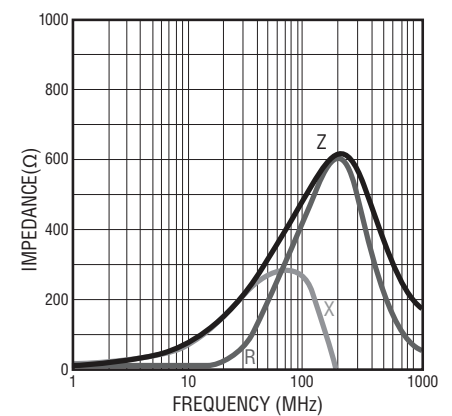
MU 1608- 221Y



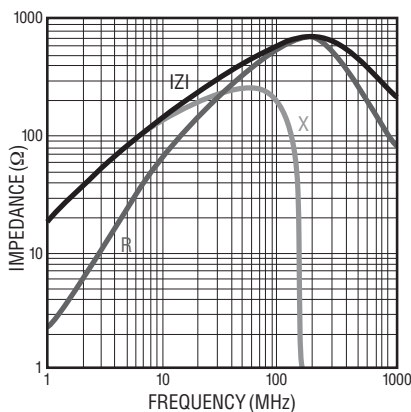
MU 1608- 301Y



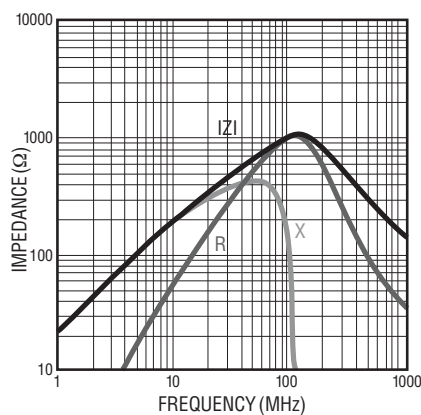
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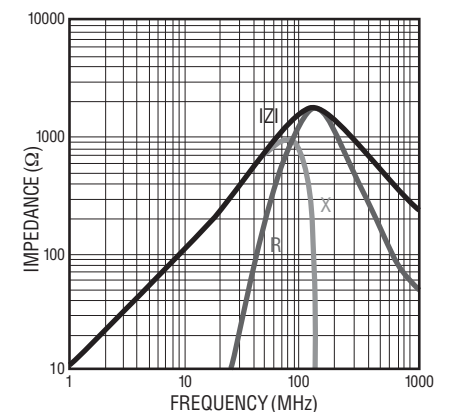
MZ 1608- 601Y



MZ 1608- 102Y



MG 1608- 152Y



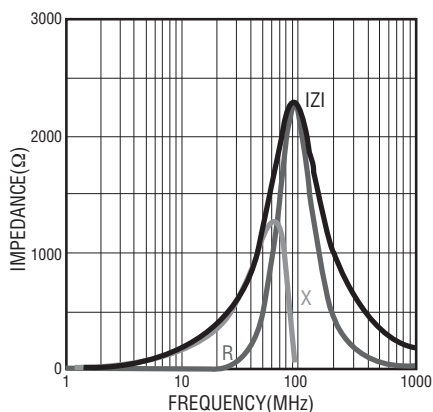
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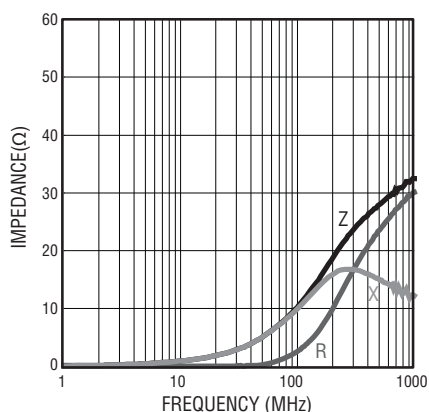
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Electrical Specifications (continued)

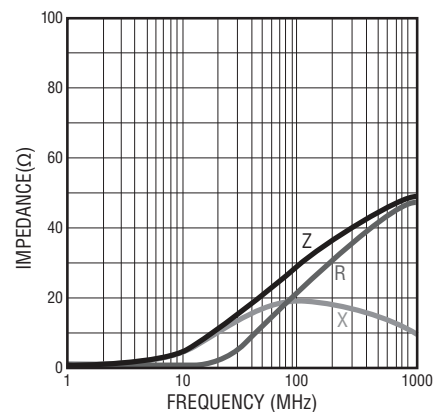
MZ 1608- 222Y



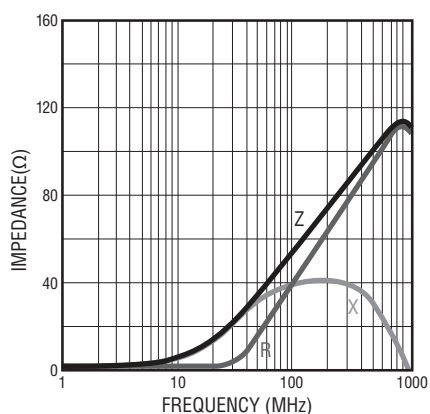
MU 1005- 100Y



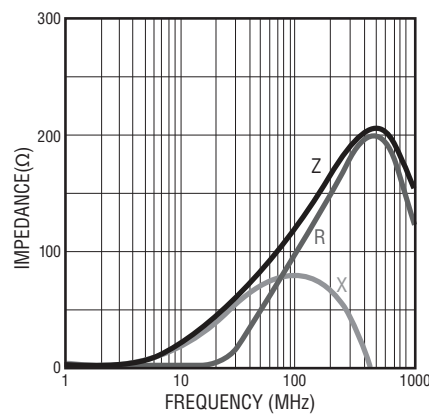
MU 1005- 300Y



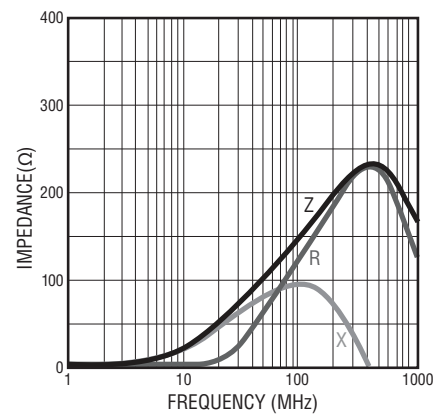
MU 1005- 600Y



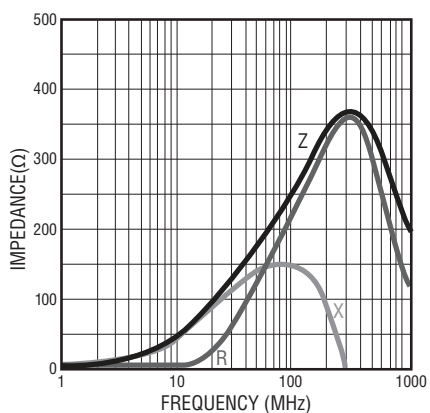
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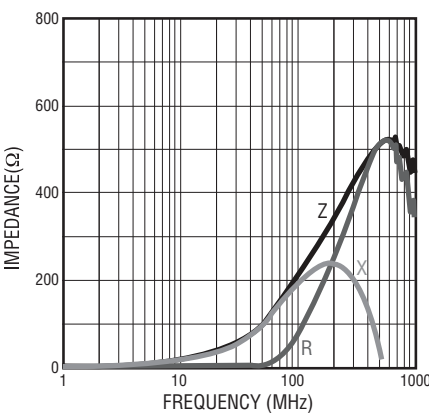
MU 1005- 151Y



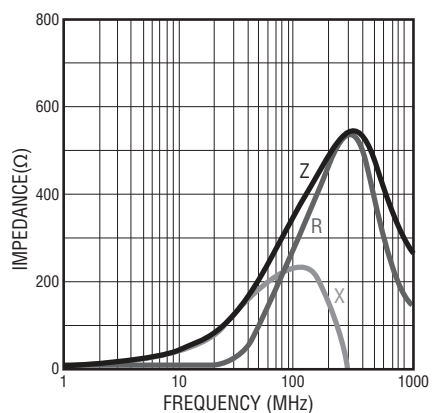
MU 1005- 221Y



MU 1005- 241Y



MU 1005- 301Y



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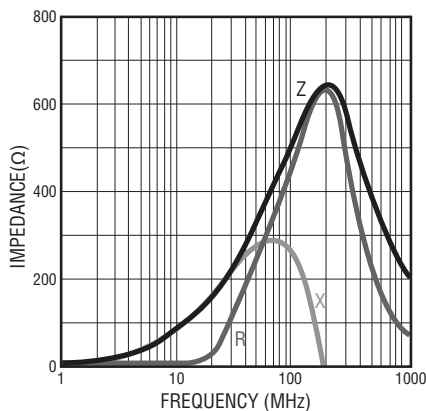
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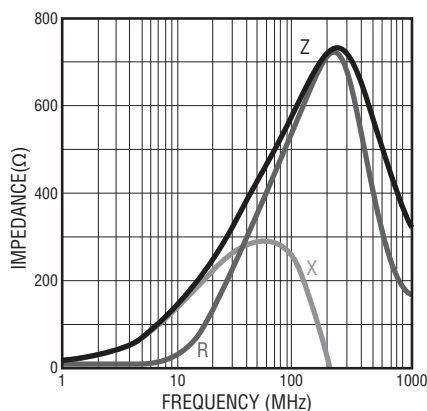
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Electrical Specifications (continued)

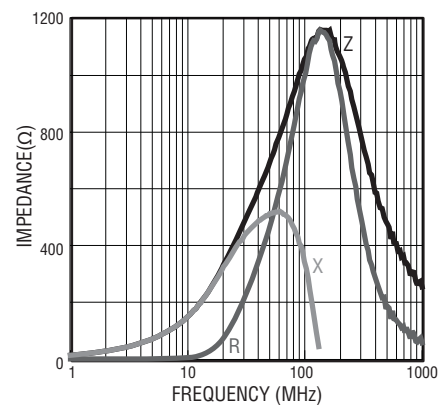
MU 1005- 471Y



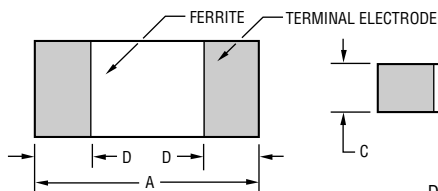
MU 1005- 601Y



MU 1005- 102Y

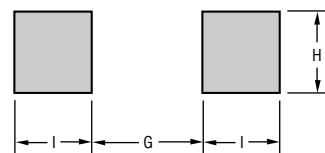


Product Dimensions



DIMENSIONS: $\frac{\text{MM}}{(\text{INCHES})}$

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	$\frac{1.0 \pm 0.10}{(.039 \pm .004)}$	$\frac{0.5 \pm 0.1}{(.020 \pm .004)}$	$\frac{0.5 \pm 0.1}{(.020 \pm .004)}$	$\frac{0.25 \pm 0.1}{(.010 \pm .004)}$	$\frac{0.5}{(.020)}$	$\frac{0.55}{(.022)}$	$\frac{0.7}{(.028)}$

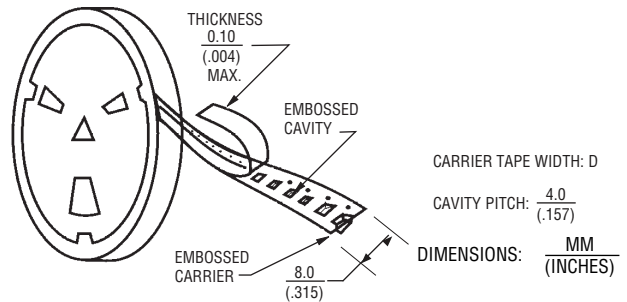
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Technical drawing of a mechanical part with dimensions in inches and millimeters. The drawing includes a circular cross-section and a longitudinal section.

Dimensions:

- Overall diameter: 178.0 (7.00) DIA.
- Top hole diameter: 2.0 ± 0.5 (0.079 ± .020)
- Inner hole diameter: 21.0 ± 0.8 (0.827 ± .031)
- Bottom hole diameter: 13.0 ± 0.5 (0.512 ± .020) DIA.
- Longitudinal section diameter: 13.0 ± 0.5 (0.512 ± .020) DIA.
- Longitudinal section length: 50.0 (1.969)
- Longitudinal section thickness: T
- Longitudinal section width: G



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

The diagram shows a mechanical system consisting of a spring and a dashpot connected in parallel. The spring is represented by a coiled line, and the dashpot is represented by a zigzag line. The entire assembly is connected to a fixed support on the left and a mass on the right. The mass is represented by a circle. The displacement of the mass is denoted by $R(t)$.

5 seconds max.

260 °C max.

230 °C

200 °C

50 sec. max.

120 sec. max.

Preheating:
100 ° to 150 °C
2 minutes min.