



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.

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.

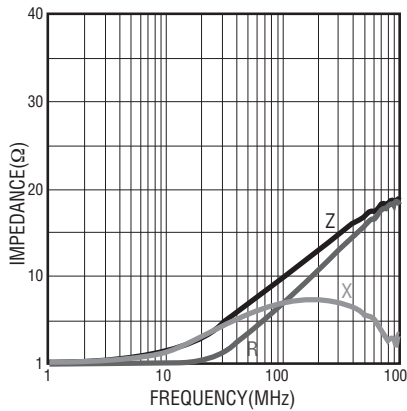
Users should verify actual device performance in their specific applications.

MG, MU, MZ Series High Impedance Chip Ferrite Beads

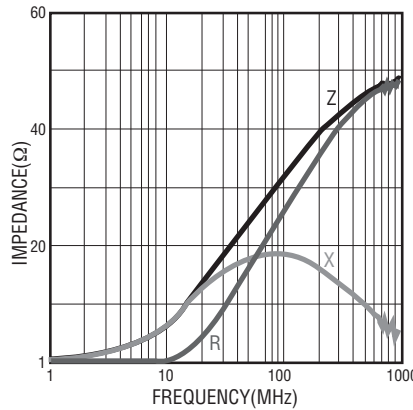
BOURNS®

Electrical Specifications (continued)

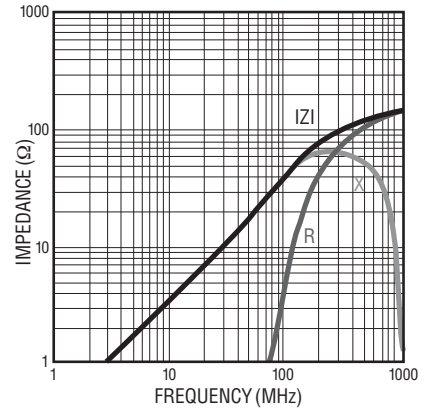
MG 2029- 100Y



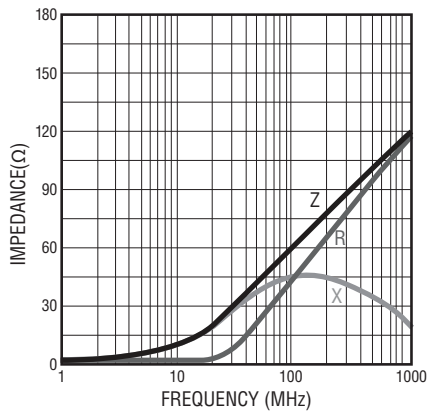
MG 2029- 300Y



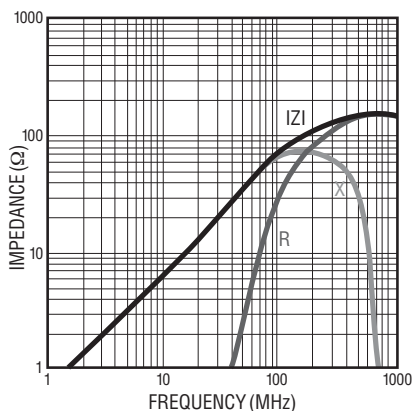
MG 2029- 400Y



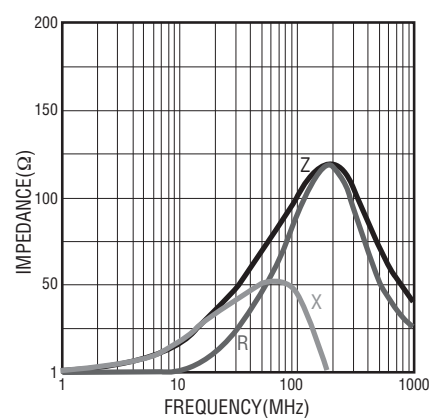
MU 2029- 600Y



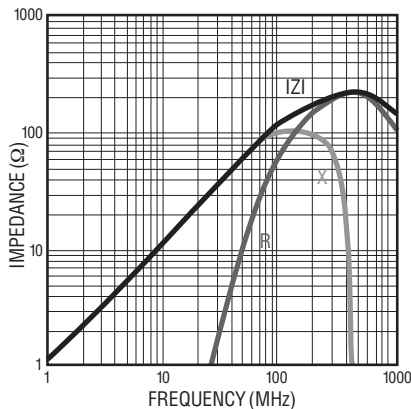
MG 2029- 800Y



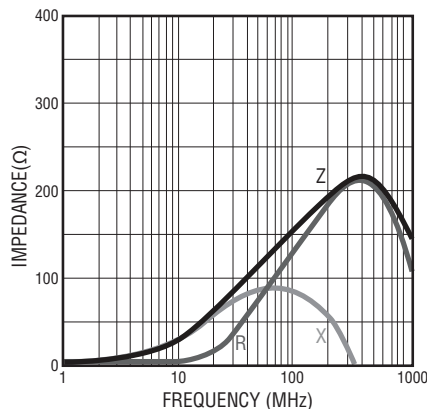
MG 2029- 101Y



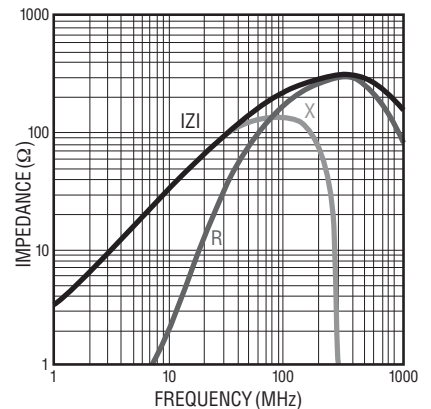
MG 2029- 121Y



MU 2029- 151Y



MU 2029- 221Y



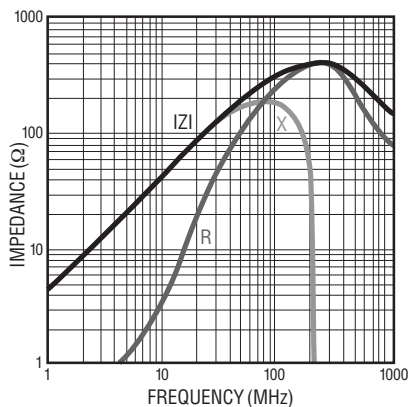
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

MG, MU, MZ Series High Impedance Chip Ferrite Beads

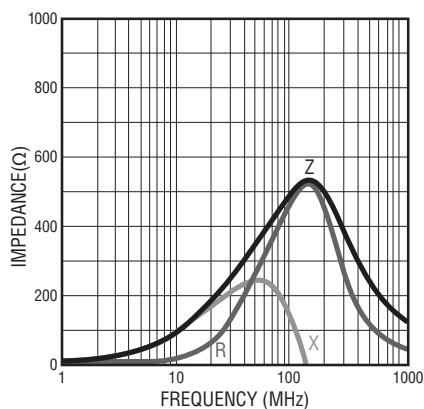
BOURNS®

Electrical Specifications (continued)

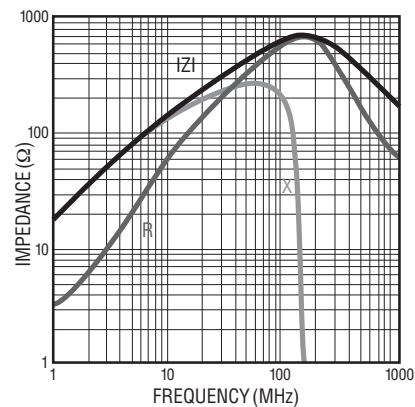
MU 2029- 301Y



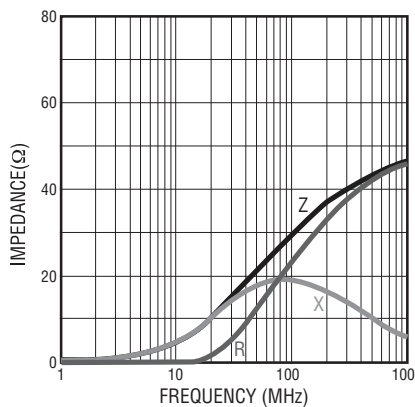
MU 2029- 471Y



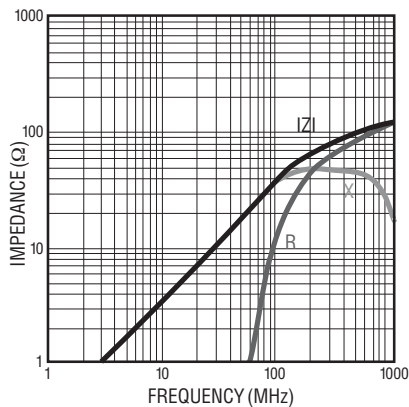
MZ 2029- 601Y



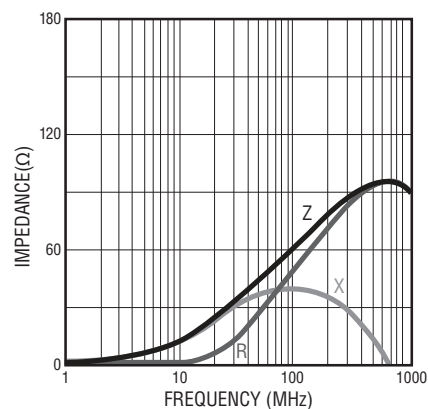
MU 1608- 300Y



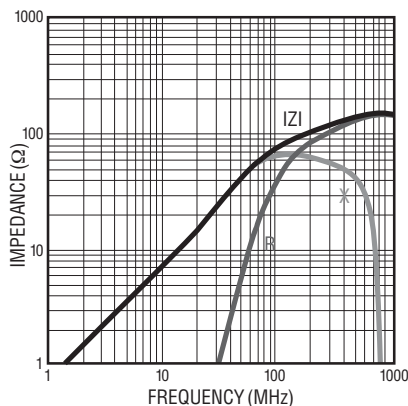
MG 1608- 400Y



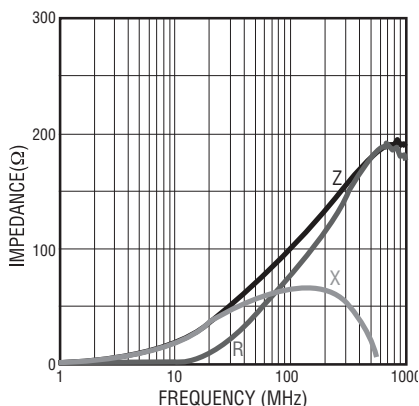
MU 1608- 600Y



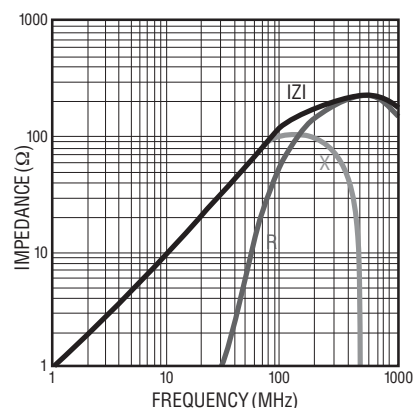
MG 1608- 800Y



MG 1608- 101Y



MG 1608- 121Y



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.

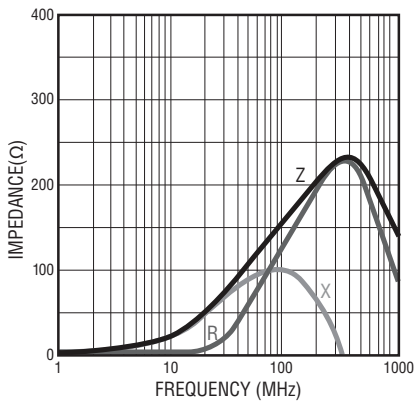
Users should verify actual device performance in their specific applications.

MG, MU, MZ Series High Impedance Chip Ferrite Beads

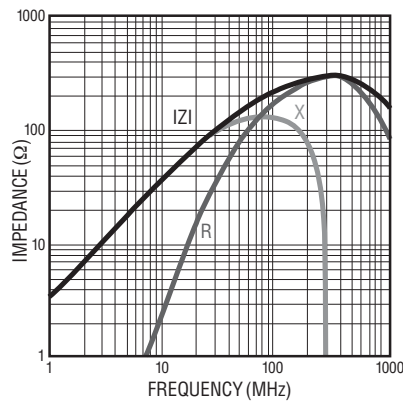
BOURNS®

Electrical Specifications (continued)

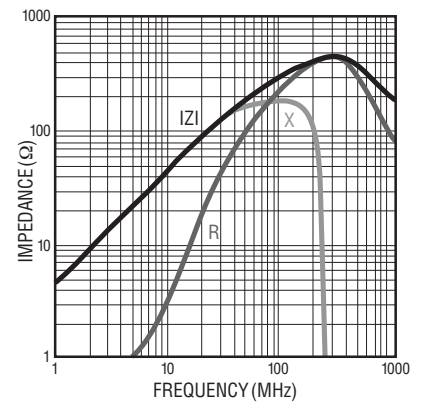
MU 1608- 151Y



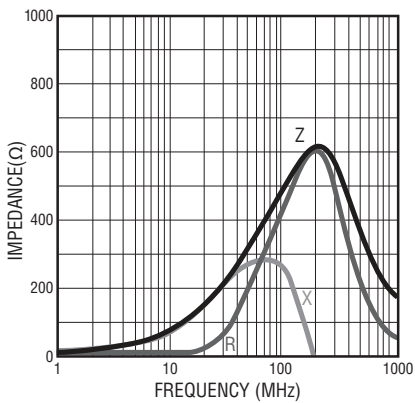
MU 1608- 221Y



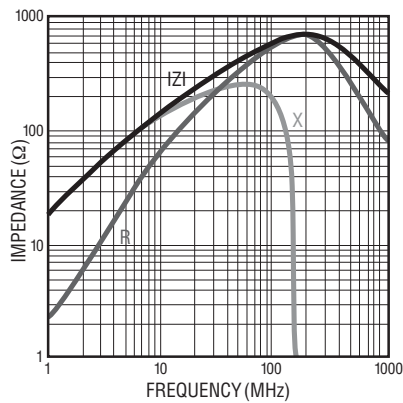
MU 1608- 301Y



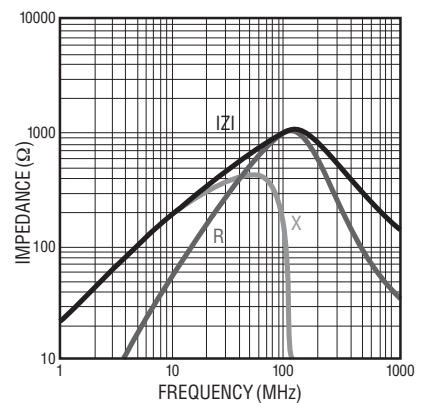
MU 1608- 471Y



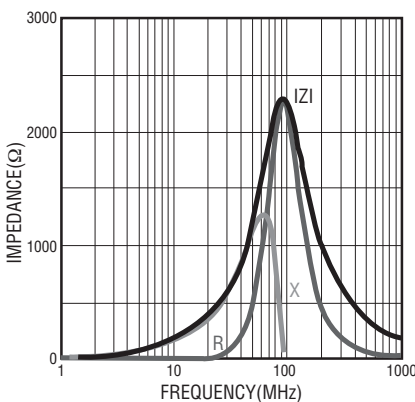
MZ 1608- 601Y



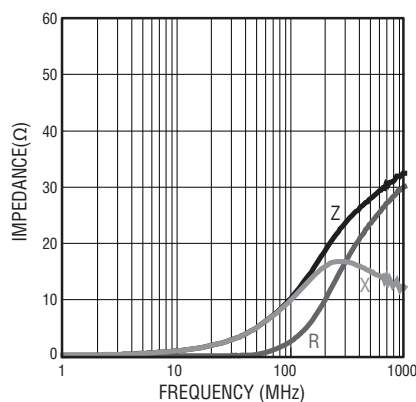
MZ 1608- 102Y



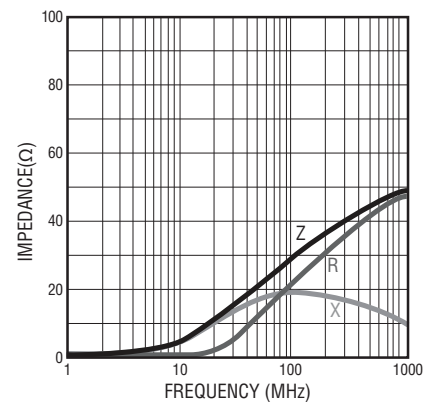
MZ 1608- 222Y



MU 1005- 100Y



MU 1005- 300Y



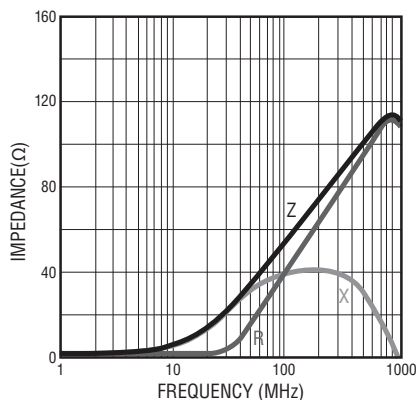
Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.

MG, MU, MZ Series High Impedance Chip Ferrite Beads

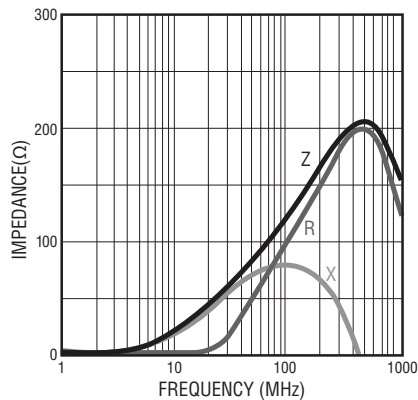
BOURNS®

Electrical Specifications (continued)

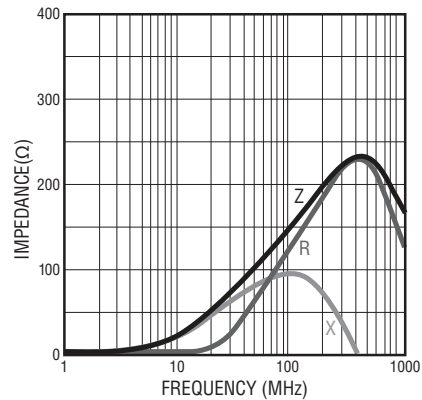
MU 1005- 600Y



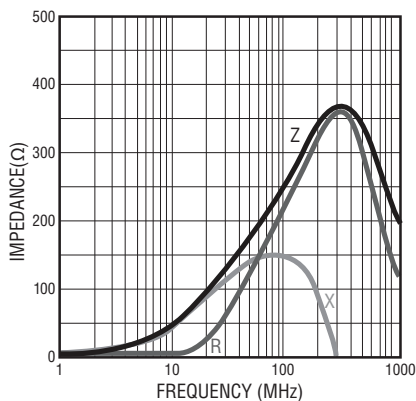
MU 1005- 121Y



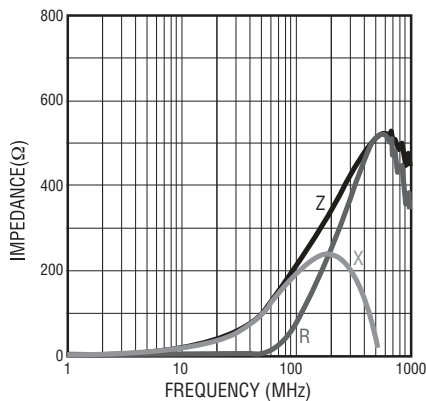
MU 1005- 151Y



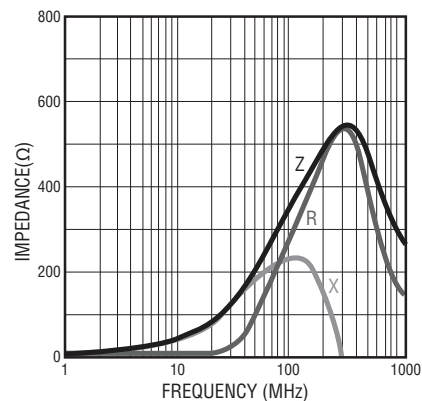
MU 1005- 221Y



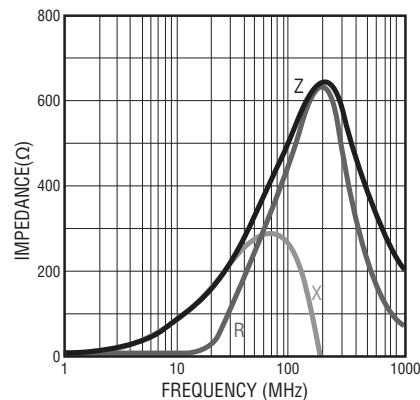
MU 1005- 241Y



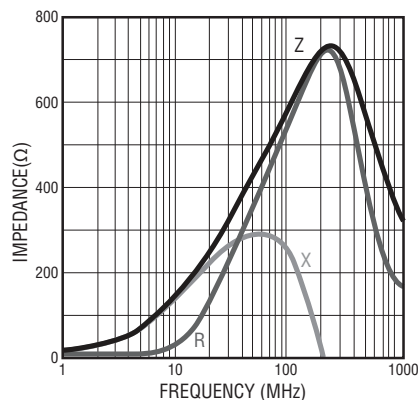
MU 1005- 301Y



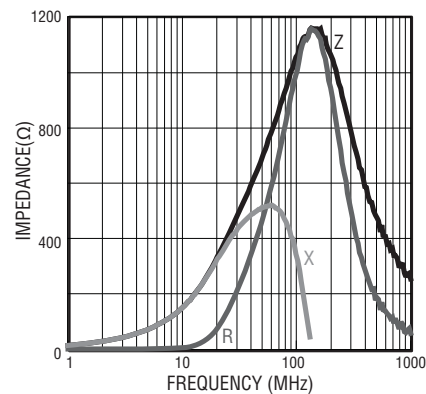
MU 1005- 471Y



MU 1005- 601Y



MU 1005- 102Y



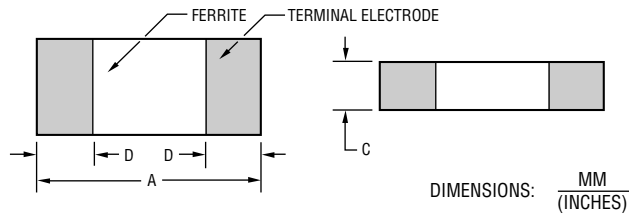
Specifications are subject to change without notice.

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.

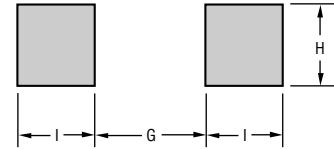
MG, MU, MZ Series High Impedance Chip Ferrite Beads

BOURNS®

Product Dimensions

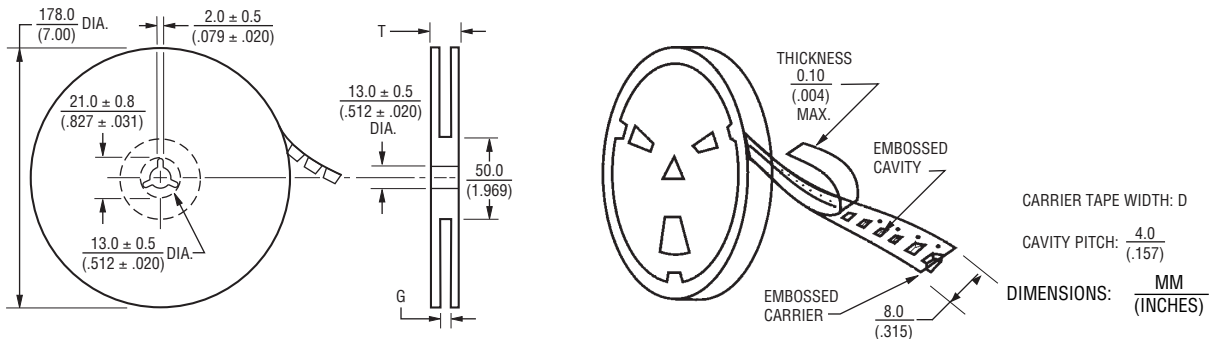


Recommended Land Pattern



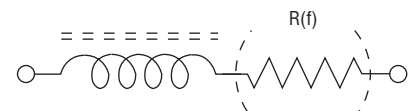
Series	A	B	C	D	G	H	I
2029	$\frac{2.0 \pm 0.2}{(.079 \pm .008)}$	$\frac{1.2 \pm 0.2}{(.047 \pm .008)}$	$\frac{0.9 \pm 0.2}{(.035 \pm .008)}$	$\frac{0.5 \pm 0.2}{(.020 \pm .008)}$	$\frac{1.0}{(.040)}$	$\frac{1.0}{(.040)}$	$\frac{1.0}{(.040)}$
1608	$\frac{1.6 \pm 0.15}{(.063 \pm .006)}$	$\frac{0.8 \pm 0.2}{(.031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

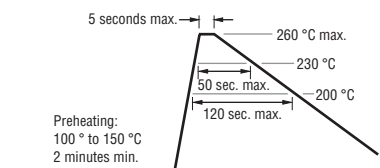


Series	Pcs. per Reel	Gross Weight (g)	D	G	T
2029	4,000	120	$\frac{8.0}{(.315)}$	$\frac{10.0 \pm 0}{(.394 \pm 0)}$	$\frac{12.5}{(.492)}$
1608	4,000	90			
1005	10,000	135			

Equivalent Circuit



Recommended Soldering



REV. 12/14

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.