

BOURNS®

Features

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

Models MG1608-202Y, -222Y and MZ1608-152Y, -202Y, -152Y, -202Y, -122Y and -202Y are currently available but not recommended for new designs.

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
MZ3261-122Y	1200 ±25 % (at 50 MHz)	0.50	100
MU3261-122Y	1200 ±25 % (at 50 MHz)	0.50	100
MU3261-152Y	1500 ±25 % (at 50 MHz)	0.70	300
MZ3261-202Y	2000 ±25 % (at 30 MHz)	0.60	100
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
MZ2029-152Y	1500 ±25 %	0.55	100
MZ2029-202Y	2000 ±25 %	0.60	50
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
MZ1608-152Y	1500 ±25 %	0.70	50
MG1608-202Y	2000 ±25 %	0.80	50
MG1608-222Y	2200 ±25 %	1.50	200
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

*RoHS Directive 2002/95/EC Jan 27, 2003 including Annex.
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

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

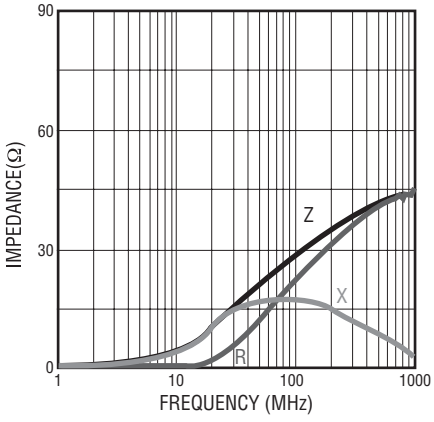
Core Material .....Ferrite
Internal Conductor .....Ag or Ag/Pd
Terminal .....Ag/Ni/Sn

Applications

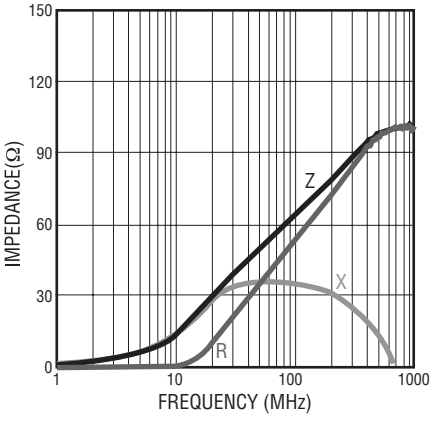
- Power supply lines
- IC power lines
- Signal lines

Electrical Specifications (continued)

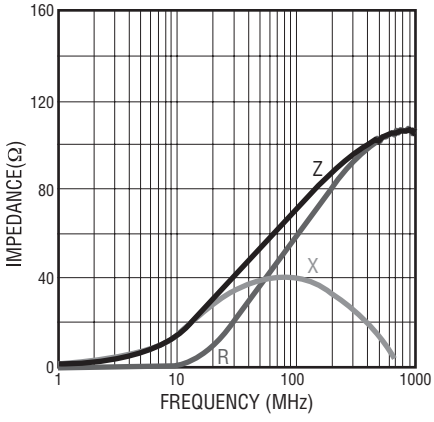
MU 3261- 300Y



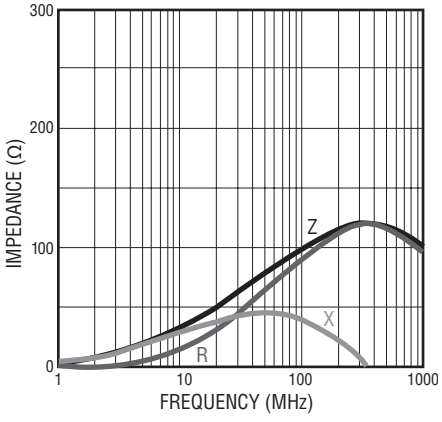
MU 3261- 600Y



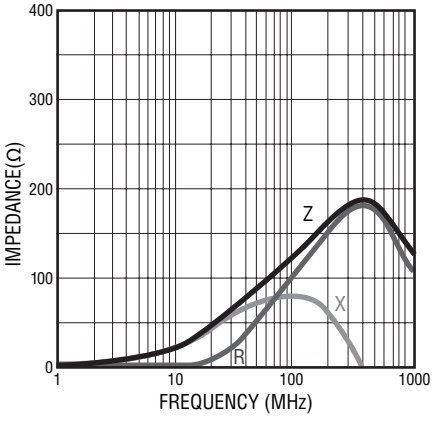
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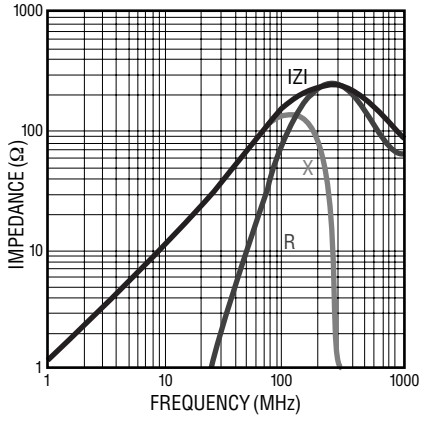
MU 3261- 101Y



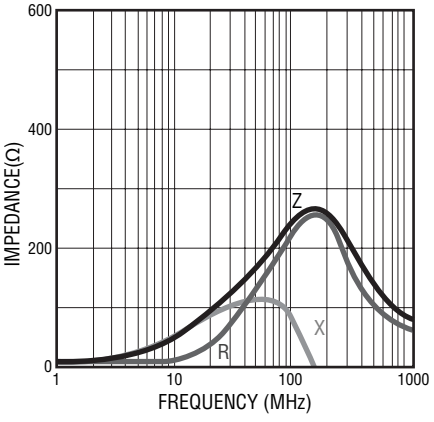
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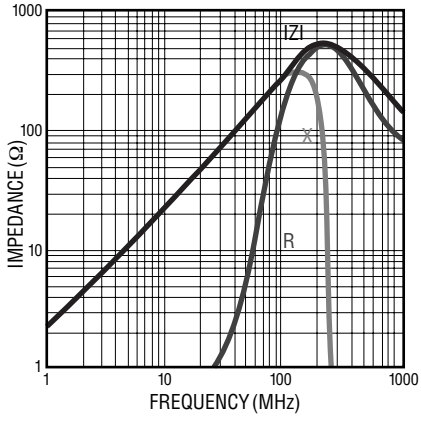
MG 3261- 151Y



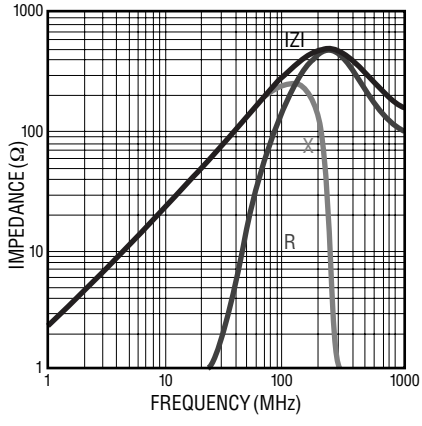
MU 3261- 221Y



MG 3261- 301Y



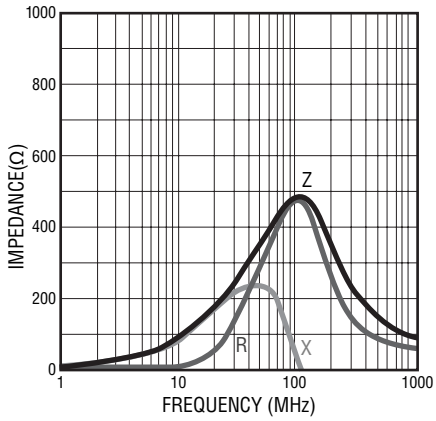
MU 3261- 301Y



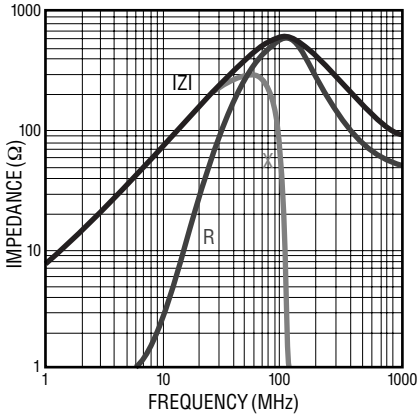
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Electrical Specifications (continued)

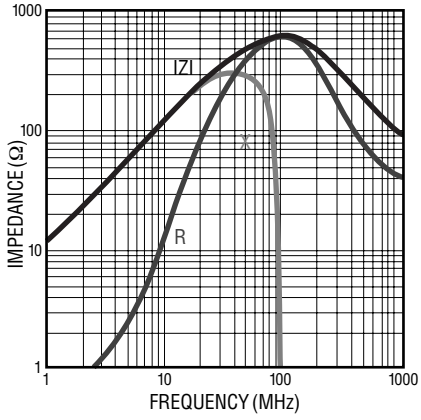
MU 3261- 471Y



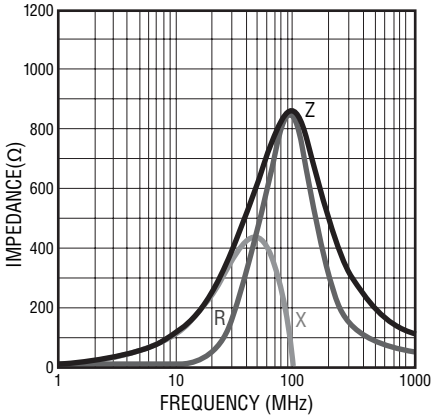
MU 3261- 601Y



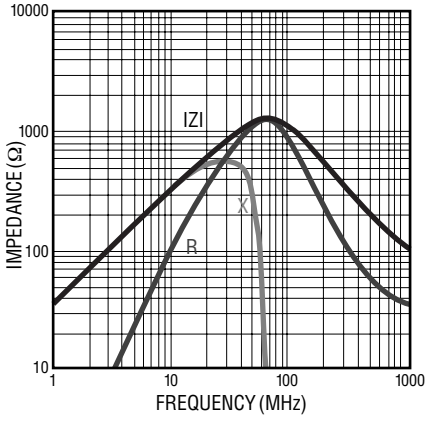
MZ 3261- 601Y



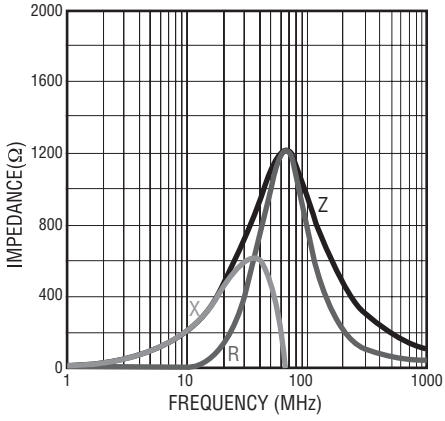
MU 3261- 801Y



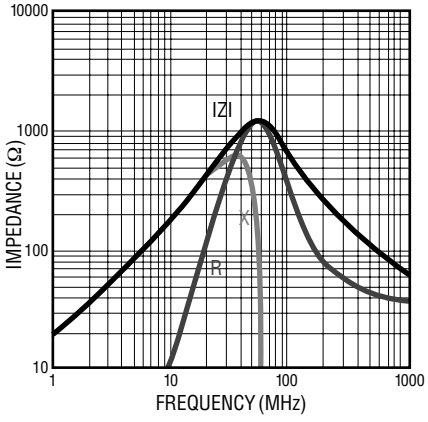
MZ 3261- 122Y



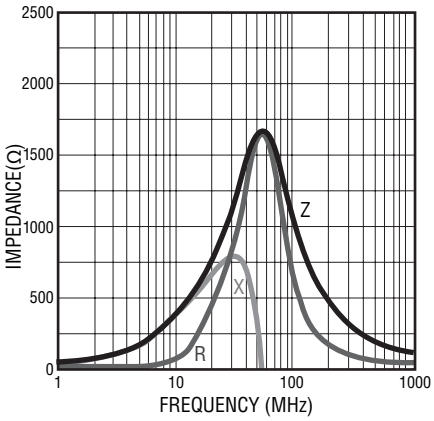
MU 3261- 102Y



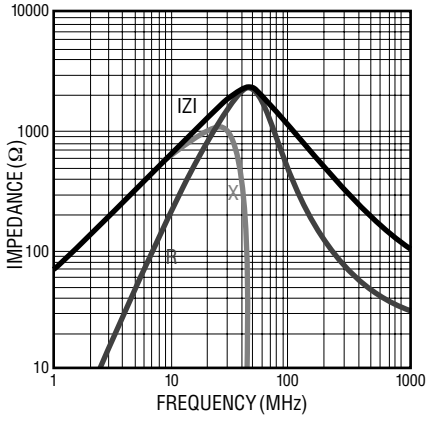
MU 3261- 122Y



MU 3261- 152Y



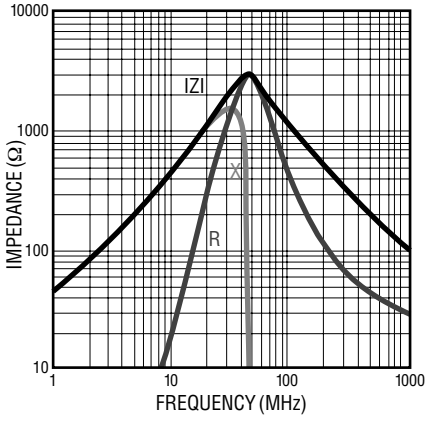
MZ 3261- 202Y



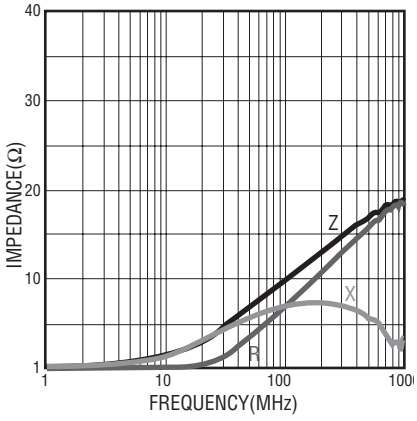
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Electrical Specifications (continued)

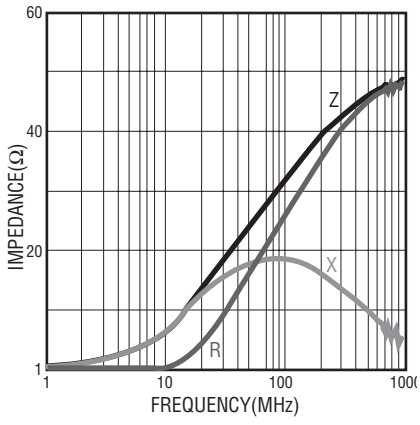
MU 3261- 202Y



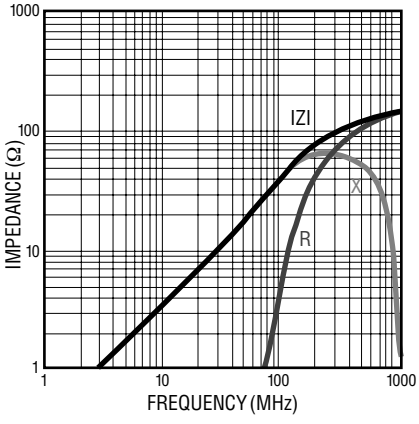
MG 2029- 100Y



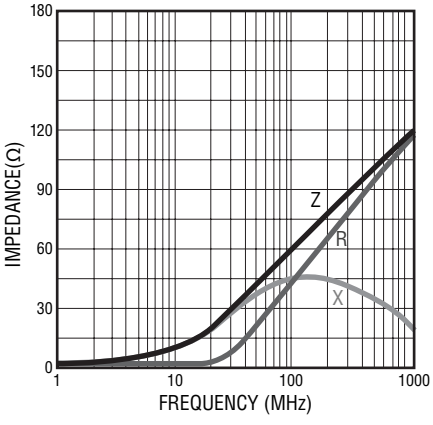
MG 2029- 300Y



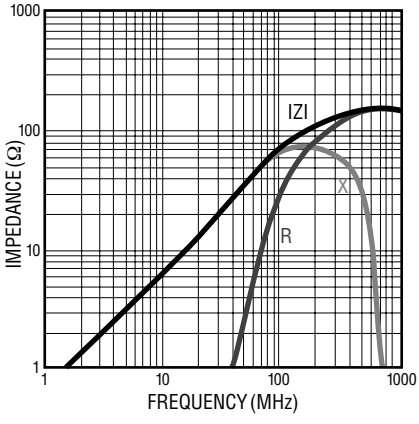
MG 2029- 400Y



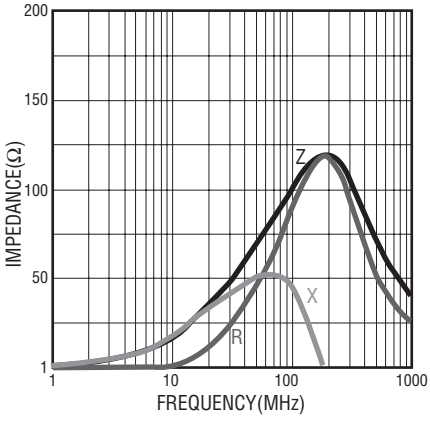
MU 2029- 600Y



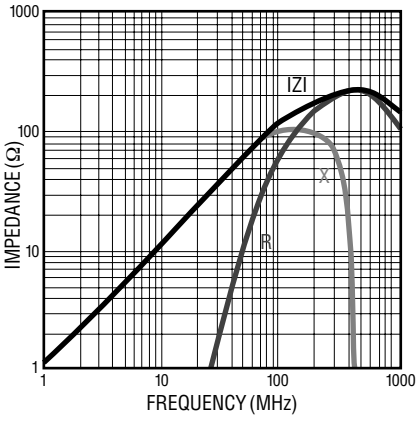
MG 2029- 800Y



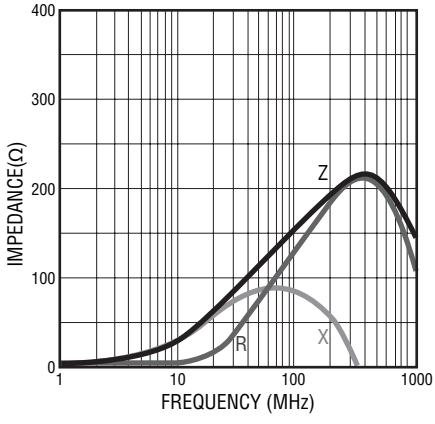
MG 2029- 101Y



MG 2029- 121Y



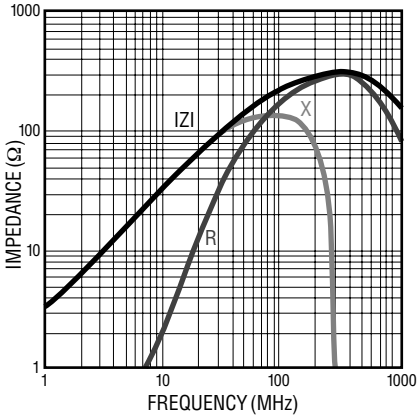
MU 2029- 151Y



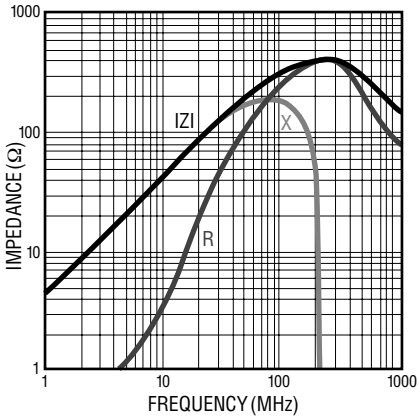
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Electrical Specifications (continued)

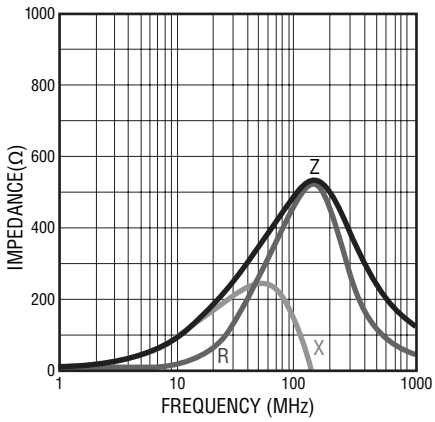
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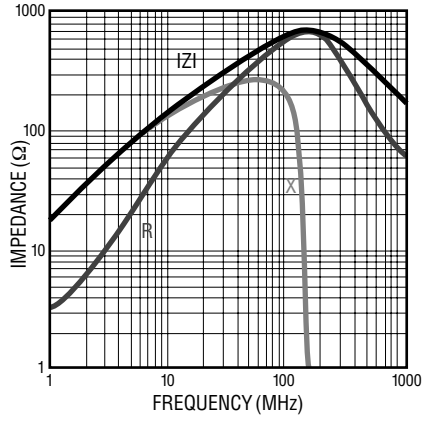
MU 2029- 301Y



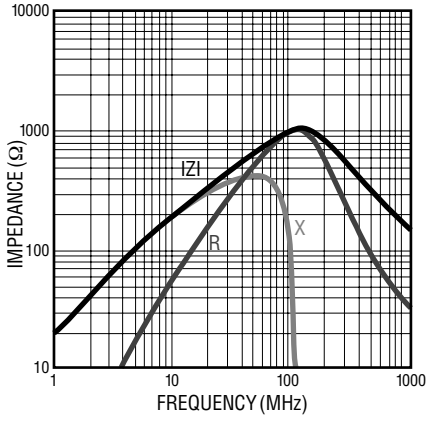
MU 2029- 471Y



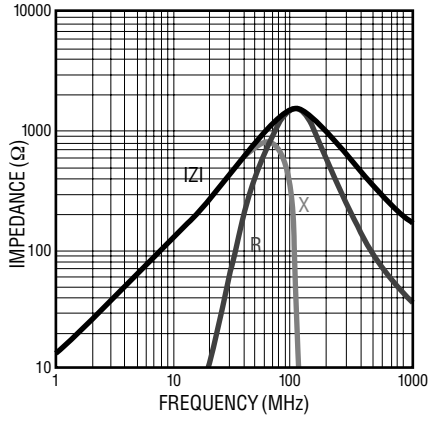
MZ 2029- 601Y



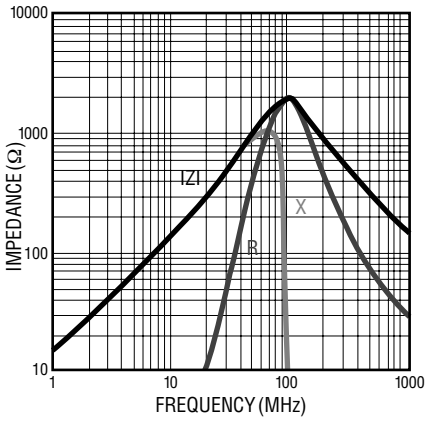
MZ 2029- 102Y



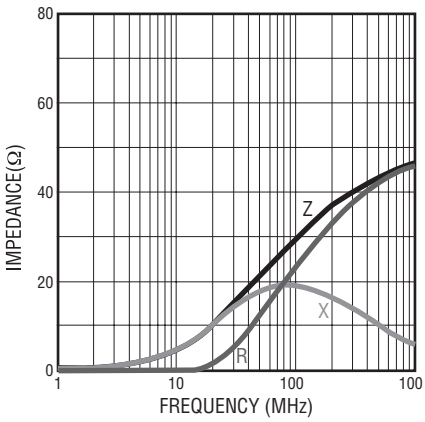
MG 2029- 152Y



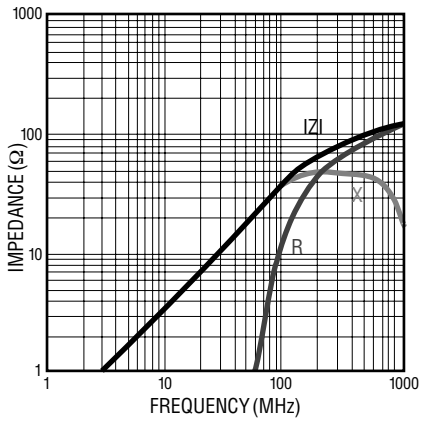
MG 2029- 202Y



MU 1608- 300Y



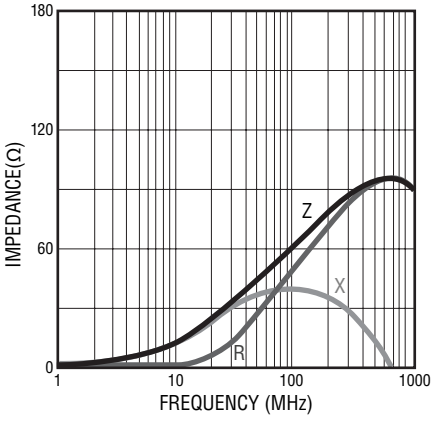
MG 1608- 400Y



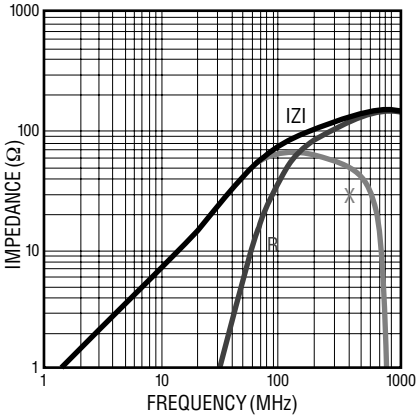
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Electrical Specifications (continued)

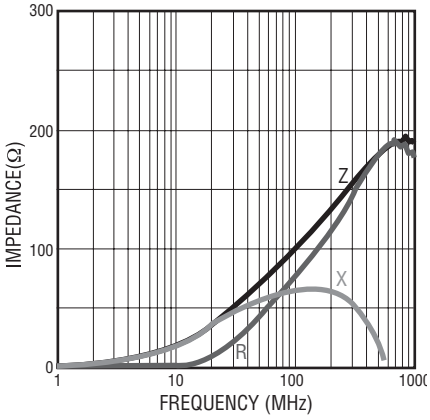
MU 1608- 600Y



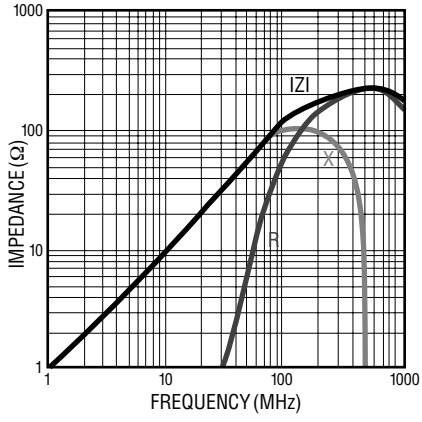
MG 1608- 800Y



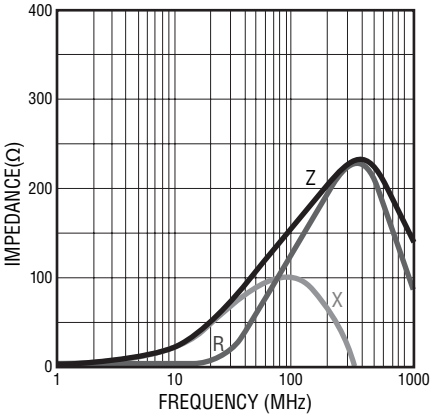
MU 1608- 101Y



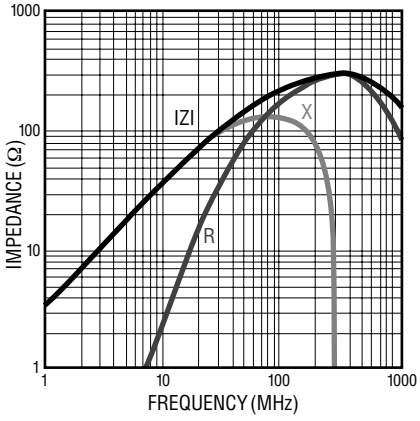
MG 1608- 121Y



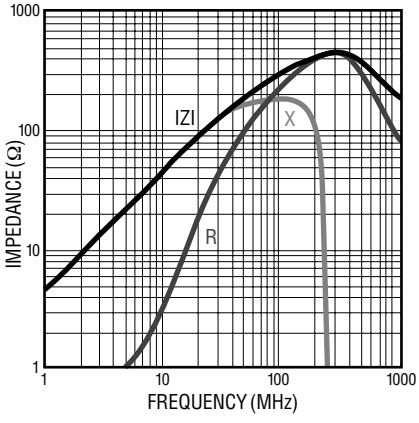
MU 1608- 151Y



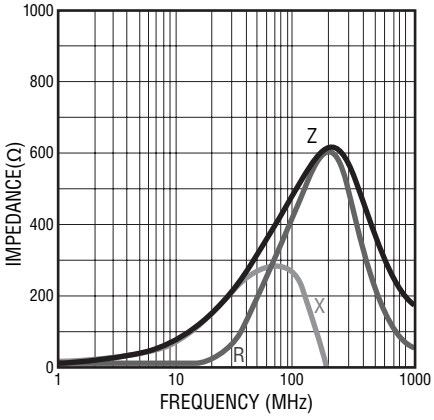
MU 1608- 221Y



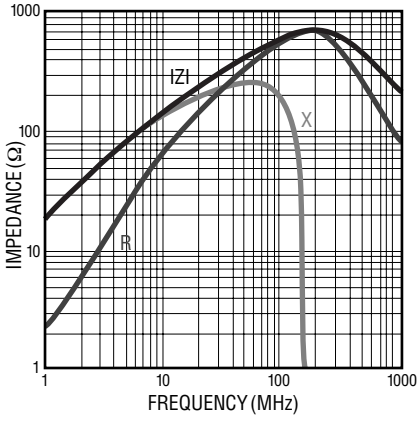
MU 1608- 301Y



MU 1608- 471Y



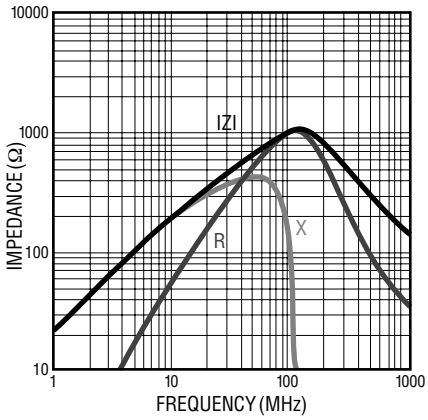
MZ 1608- 601Y



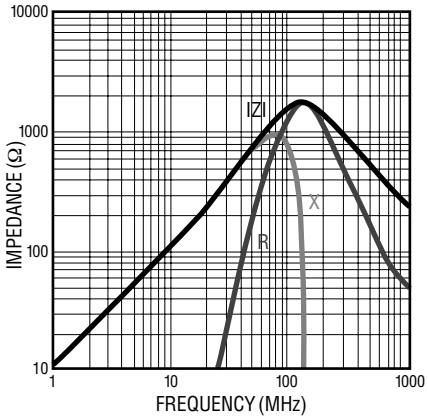
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

Electrical Specifications (continued)

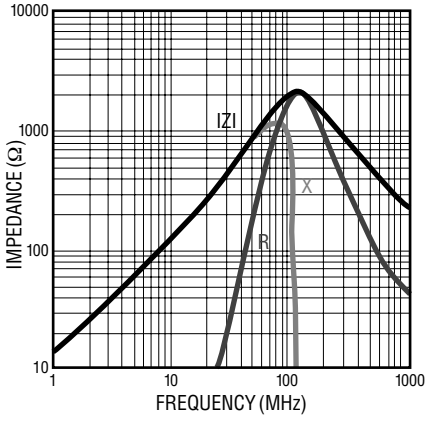
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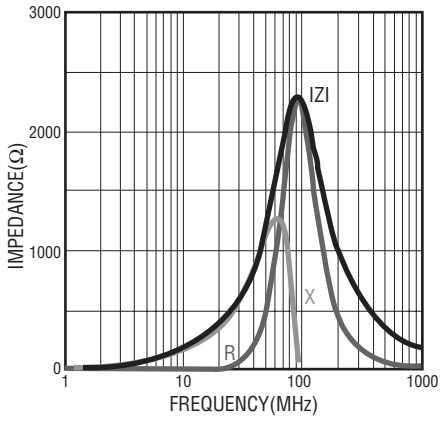
MG 1608- 152Y



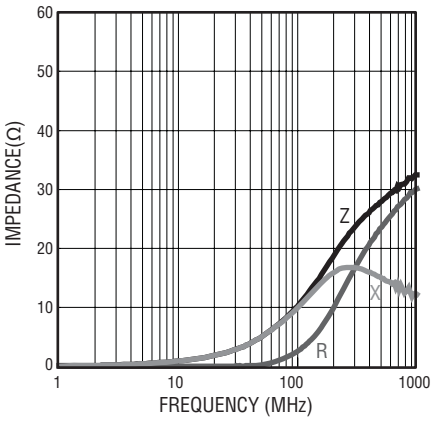
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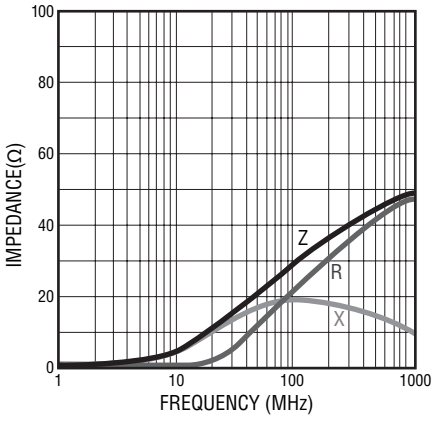
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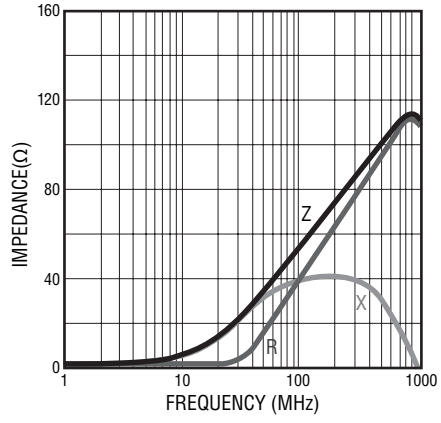
MU 1005- 100Y



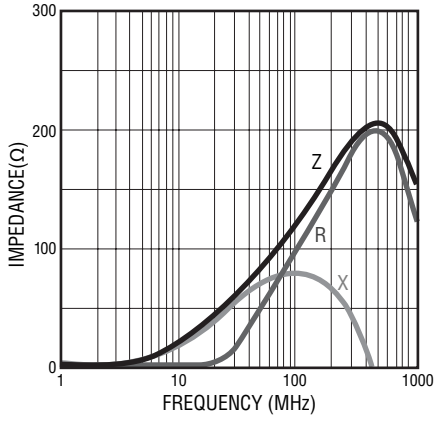
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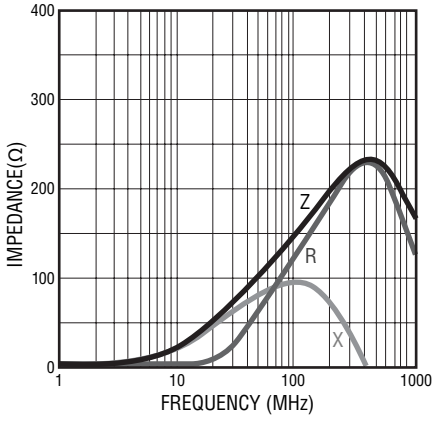
MU 1005- 600Y



MU 1005- 121Y



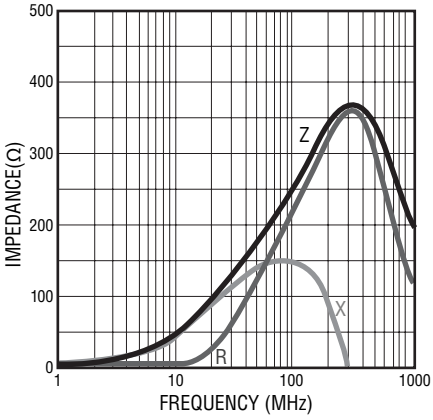
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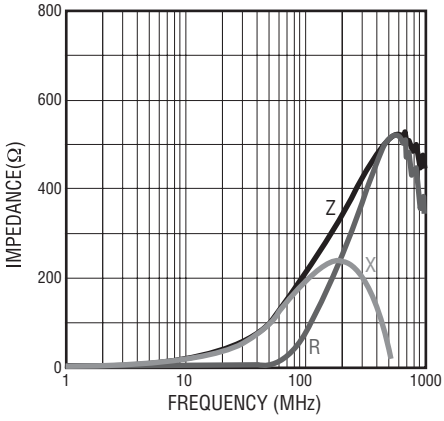
Specifications are subject to change without notice.
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Electrical Specifications (continued)

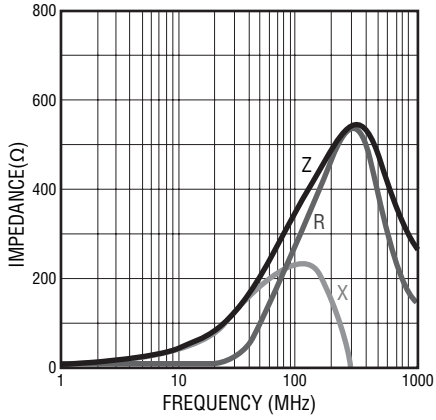
MU 1005- 221Y



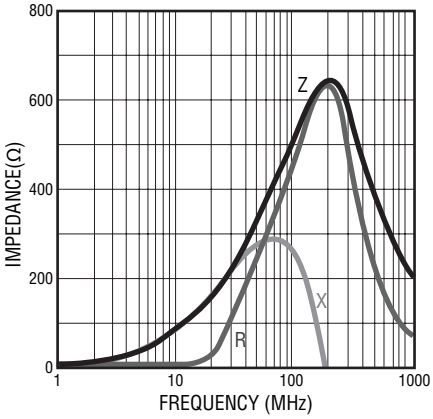
MU 1005- 241Y



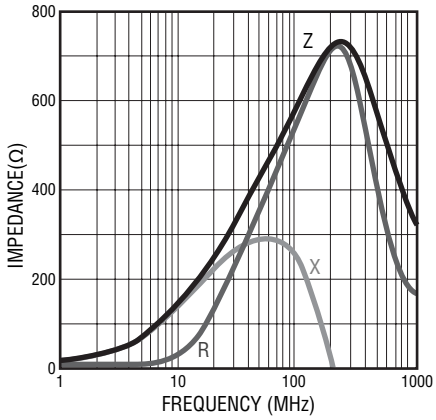
MU 1005- 301Y



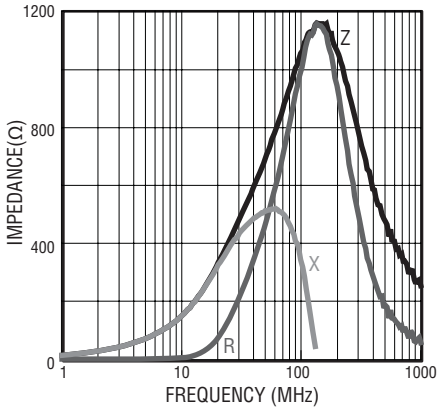
MU 1005- 471Y



MU 1005- 601Y



MU 1005- 102Y

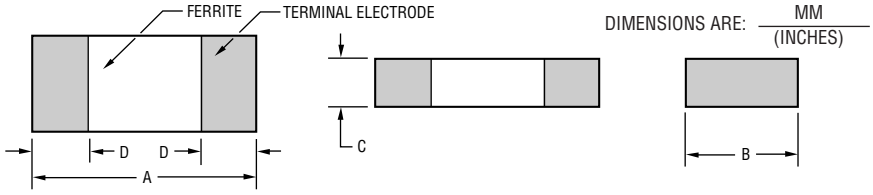


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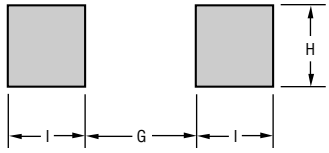
MG, MU, MZ Series High Impedance Chip Ferrite Beads

BOURNS®

Product Dimensions

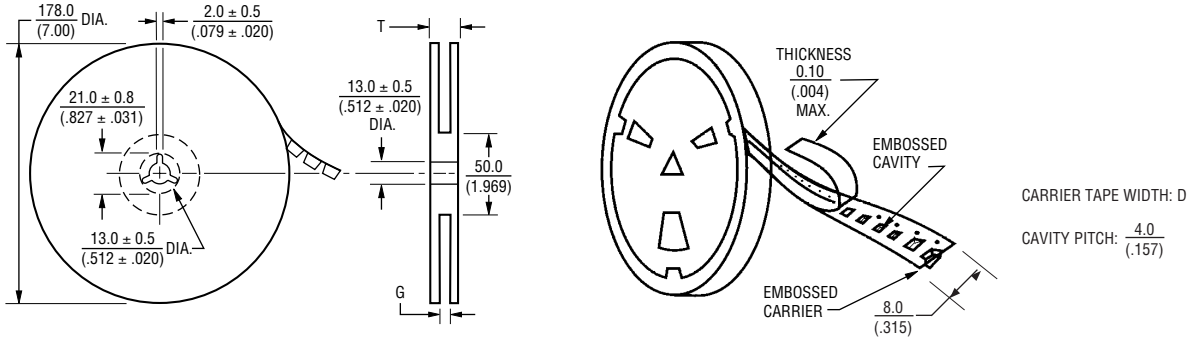


Recommended Land Pattern



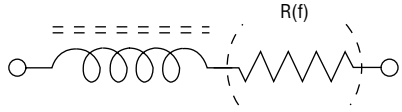
Series	A	B	C	D	G	H	I
3261	3.2 ±0.2 (.126 ±.008)	1.6 ±0.2 (.063 ±.008)	1.1 ±0.2 (.043 ±.008)	0.5 ±0.2 (.020 ±.008)	2.0 (.079)	1.4 (.053)	1.1 (.043)
2029	2.0 ±0.2 (.079 ±.008)	1.2 ±0.2 (.047 ±.008)	0.9 ±0.2 (.035 ±.008)	0.5 ±0.2 (.020 ±.008)	1.0 (.040)	1.0 (.040)	1.0 (.040)
1608	1.6 ±0.2 (.063 ±.008)	0.8 ±0.2 (.031 ±.008)	0.8 ±0.2 (.031 ±.008)	0.5 ±0.2 (.020 ±.008)	0.7 (.028)	0.7 (.128)	0.7 (.128)
1005	1.0 ±0.10 (.04 ±.004)	0.50 ±0.10 (0.02 ±.004)	0.50 ±0.10 (.02 ±.004)	0.25 ±0.10 (.01 ±.004)	0.5 (.02)	0.55 (.022)	0.7 (.028)

Reel Dimensions

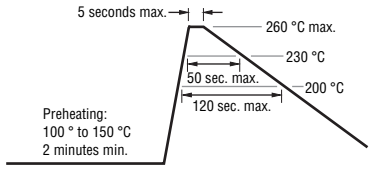


Series	Pcs. per Reel	Gross Weight (g)	D	G	T
3261	3,000	150	8.0 (.315)	10.0 +0 (.394 +0)	12.5 (.492)
2029	4,000	120			
1608	4,000	90			
1005	10,000	135			

Equivalent Circuit



Recommended Soldering



REV. 05/11

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