

Features

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

Applications

- Power supply lines
- IC power lines
- Signal lines

BOURNS®

MH Series High Current Chip Ferrite Beads

Electrical Specifications

Model Number	Impedance (Ω) at 100 MHz	RDC (mΩ) Max.	IDC (A) Max.
MH3261-601Y	600 ±25 %	100	2.0
MH2029-070Y	7 ±25 %	30	3.0
MH2029-100Y	10 ±25 %	10	6.0
MH2029-300Y	30 ±25 %	25	3.0
MH2029-400Y	40 ±25 %	20	5.0
MH2029-600Y	60 ±25 %	20	5.0
MH2029-800Y	80 ±25 %	40	3.0
MH2029-101Y	100 ±25 %	100	2.0
MH2029-121Y	120 ±25 %	100	2.0
MH2029-151Y	150 ±25 %	100	2.0
MH2029-221Y	220 ±25 %	100	2.0
MH2029-301Y	300 ±25 %	200	1.0
MH2029-401Y	400 ±25 %	100	2.0
MH2029-471Y	470 ±25 %	200	1.0
MH2029-601Y	600 ±25 %	200	1.0
MH1608-100Y	10 ±25 %	10	6.0
MH1608-300Y	30 ±25 %	40	3.0
MH1608-600Y	60 ±25 %	40	3.0
MH1608-800Y	80 ±25 %	40	3.0
MH1608-101Y	100 ±25 %	40	3.0
MH1608-121Y	120 ±25 %	100	2.0
MH1608-151Y	150 ±25 %	100	2.0
MH1608-181Y	180 ±25 %	100	2.0
MH1608-221Y	220 ±25 %	100	2.0
MH1608-301Y	300 ±25 %	200	1.0
MH1608-471Y	470 ±25 %	200	1.0
MH1608-601Y	600 ±25 %	200	1.0

General Specifications

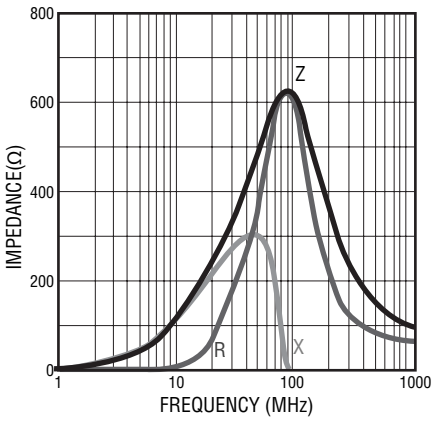
Operating Temperature
.....-55 °C to +125 °C
Storage Temperature
.....-55 °C to +125 °C
Storage Condition
.....+40 °C max. at 70 % RH
Reflow Soldering .. 230 °C, 50 sec. max.
Resistance to Soldering Heat
..... +260 °C, 5 seconds
Rated Current.....Based on max
.....temperature rise of +40 °C
Terminal Strength
(Force "F" applied for 30 seconds)
3261 Series.....1.0 F (Kg)
2029 Series.....0.6 F (Kg)
1608 Series.....0.5 F (Kg)

Materials

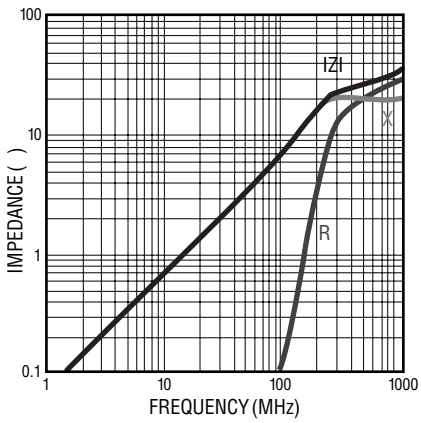
Core Material.....Ferrite
Internal Conductor.....Ag or Ag/Pd
Terminal.....Ag/Ni/Sn

Electrical Specifications (continued)

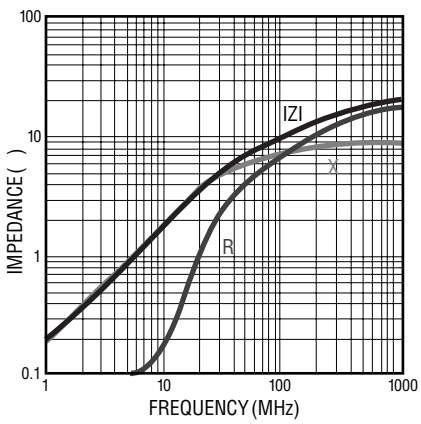
MH 3261- 601Y



MH 2029- 070Y



MH 2029- 100Y



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

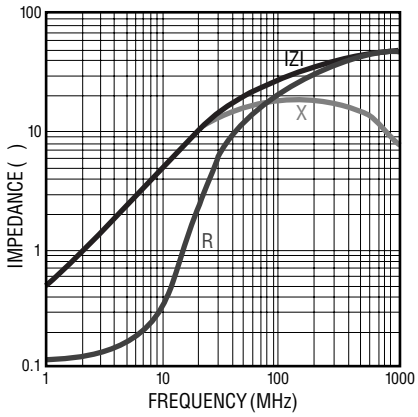
* RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

**Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

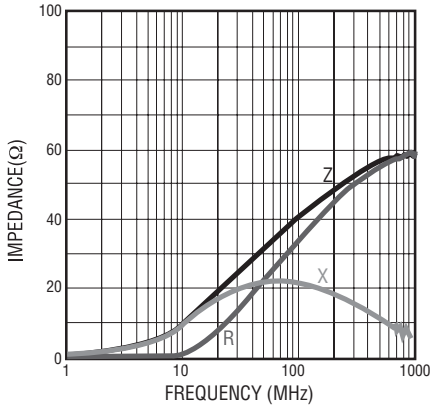
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Electrical Specifications (continued)

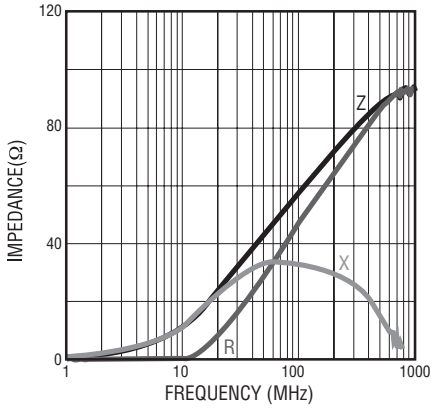
MH 2029- 300Y



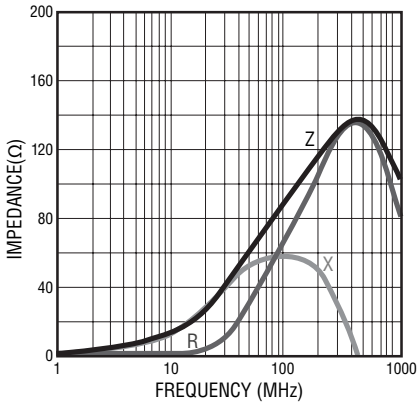
MH 2029 -400Y



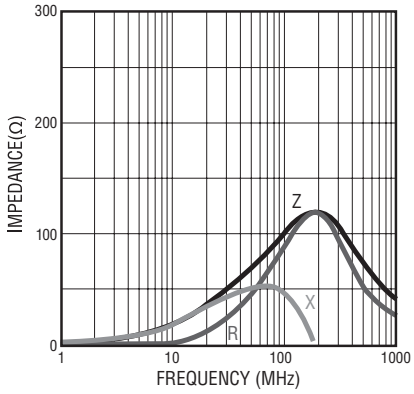
MH 2029 -600Y



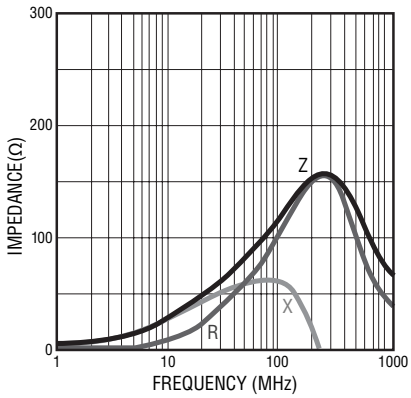
MH 2029- 800Y



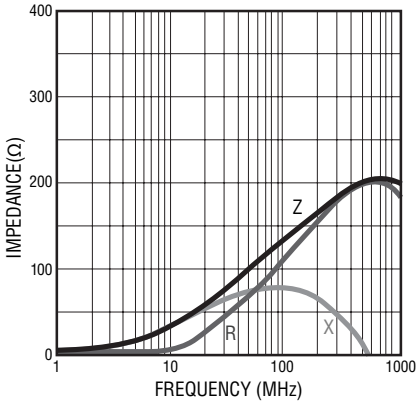
MH 2029- 101Y



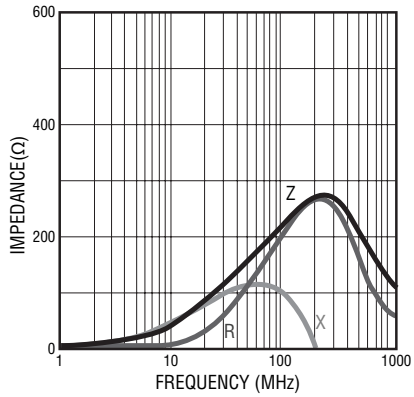
MH 2029- 121Y



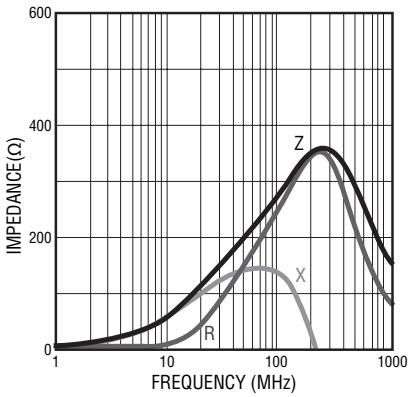
MH 2029- 151Y



MH 2029- 221Y



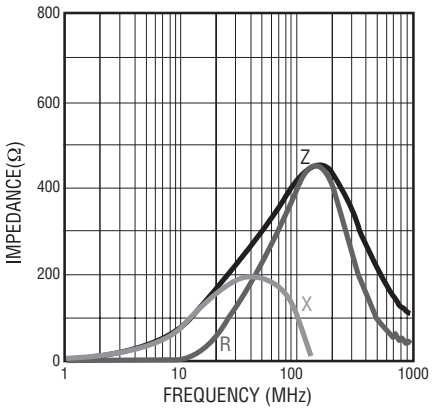
MH 2029- 301Y



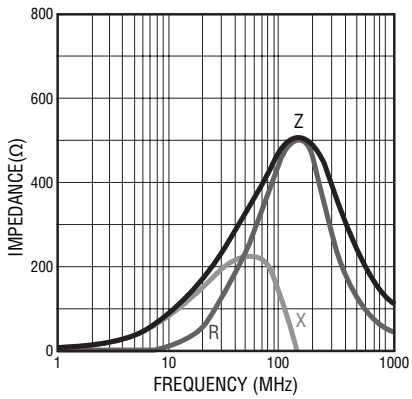
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Electrical Specifications (continued)

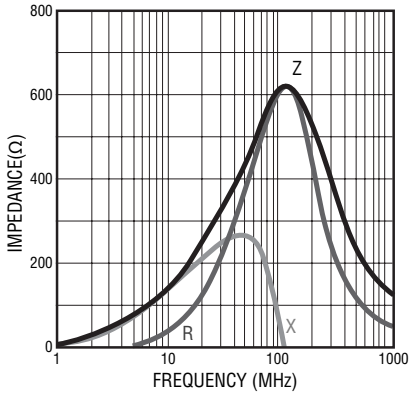
MH 2029 -401Y



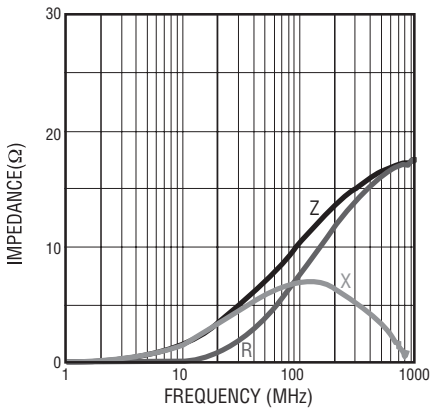
MH 2029- 471Y



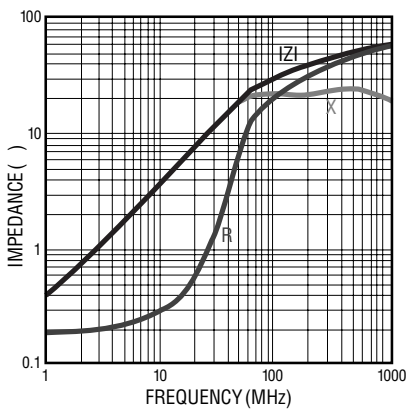
MH 2029- 601Y



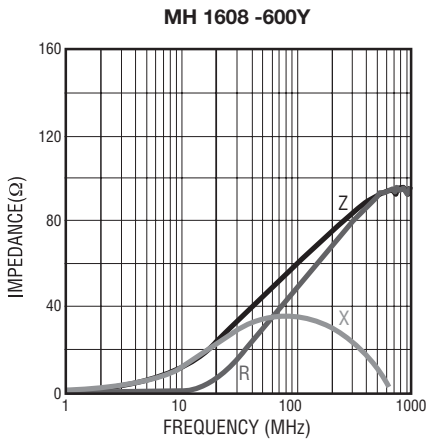
MH 1608 -100Y



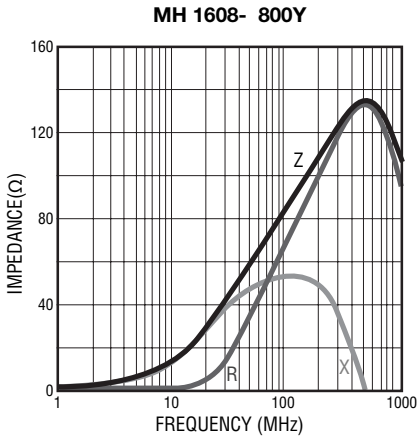
MH 1608- 300Y



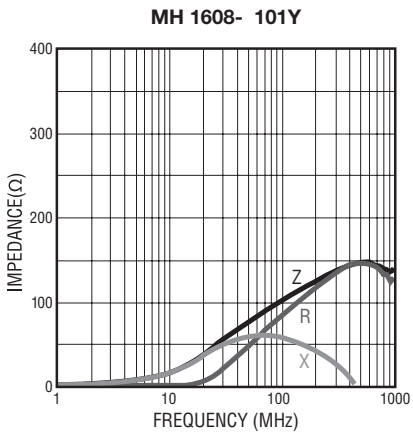
MH 1608 -600Y



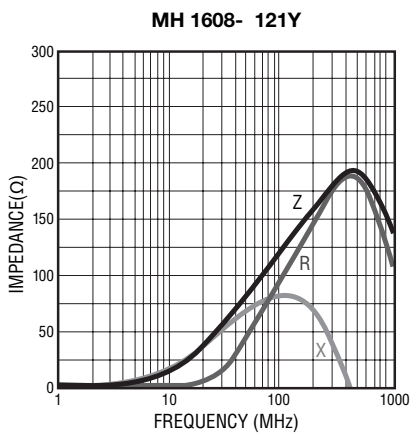
MH 1608- 800Y



MH 1608- 101Y



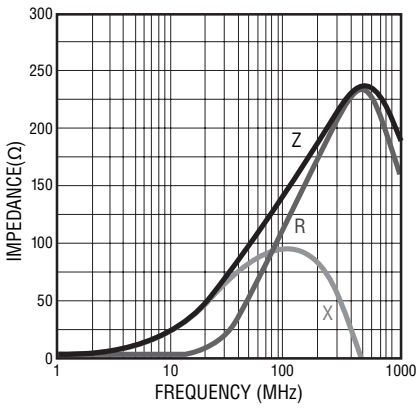
MH 1608- 121Y



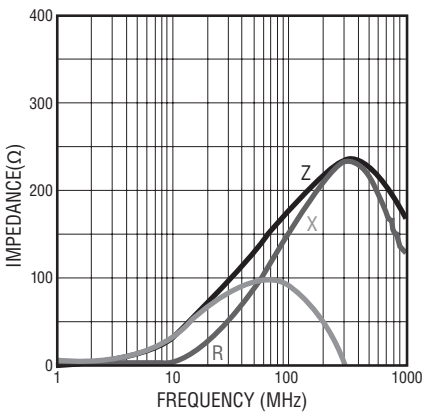
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Electrical Specifications (continued)

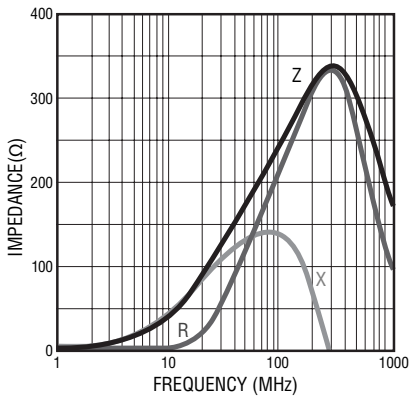
MH 1608- 151Y



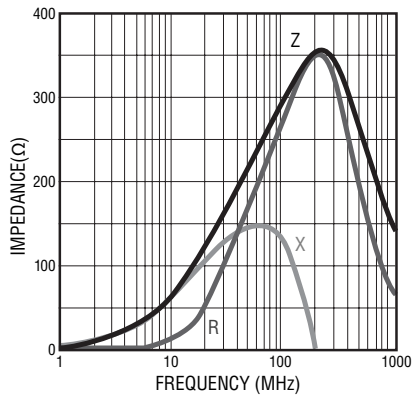
MH 1608- 181Y



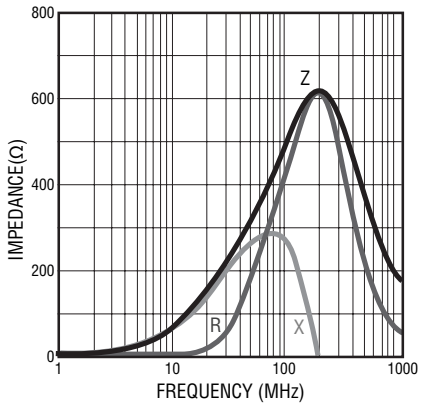
MH 1608- 221Y



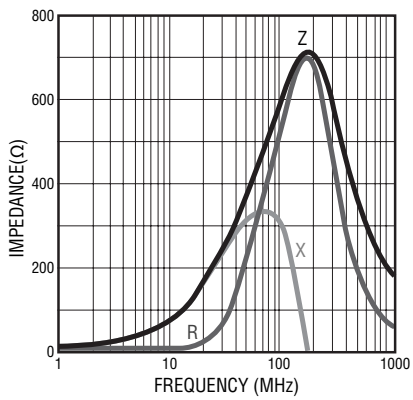
MH 1608- 301Y



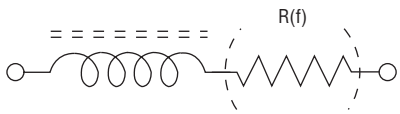
MH 1608- 471Y



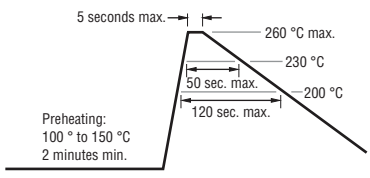
MH 1608- 601Y



Equivalent Circuit



Recommended Soldering

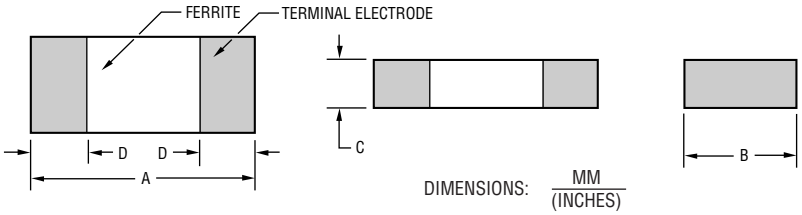


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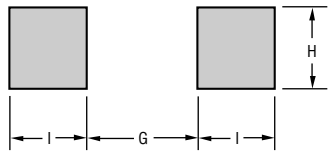
MH Series High Current Chip Ferrite Beads

BOURNS®

Product Dimensions

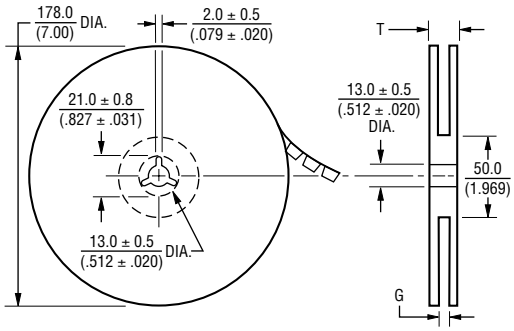


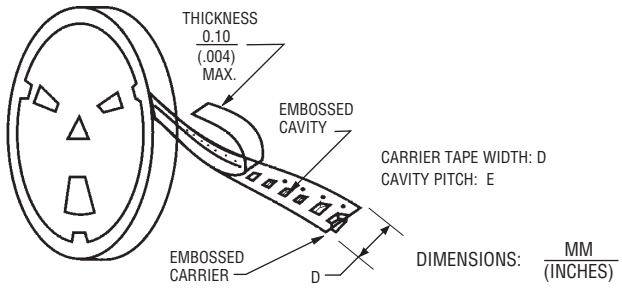
Recommended Land Pattern



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 ± 0.15 (.063 ± .006)	0.8 ± 0.2 (.031 ± .008)	0.8 ± 0.2 (.031 ± .008)	0.3 ± 0.2 (.012 ± .008)	0.7 (.028)	0.7 (.028)	0.7 (.028)

Reel Dimensions





Series	Pcs. per Reel	Gross Weight (g)	D	E	G	T
3261	3,000	150	8.0 (.315)	4.0 (.157)	10.0 + 0 (.394 + 0)	12.5 (.492)
2029	4,000	120	8.0 (.315)	4.0 (.157)	10.0 + 0 (.394 + 0)	12.5 (.492)
1608	4,000	90	8.0 (.315)	4.0 (.157)	10.0 + 0 (.394 + 0)	12.5 (.492)

REV. 12/18

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Bourns® products are not recommended, authorized or intended for use in applications where failure or malfunction may result in personal injury, death, or severe property or environmental damage, such as without limitation nuclear, life-critical medical and certain automotive and aviation applications. Except as set forth in the bullet points below or unless expressly and specifically approved in writing on a case-by-case basis by an authorized Bourns' representative, use of any Bourns® products in such unauthorized high-risk applications is at the user's sole risk.

- Bourns considers implantable/invasive devices and devices/procedures designed as life-supporting or life-sustaining by the U.S. Food and Drug Administration or equivalent organizations outside of the United States as "life-critical" medical applications. Bourns expressly identifies those Bourns® standard products that are suitable for use in typical medical applications that are not life-critical in its publication entitled "Bourns Medical Grade Component Guide."

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