

#### **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

## **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

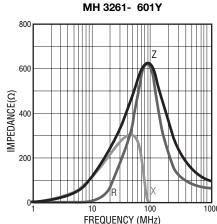
Terminal Strength

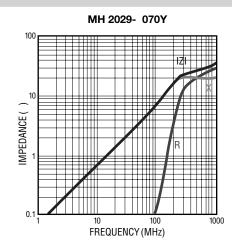
(Force "F" applied for 30 seconds)

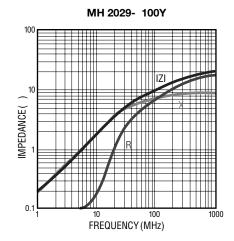
#### **Materials**

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

#### **Electrical Specifications (continued)**







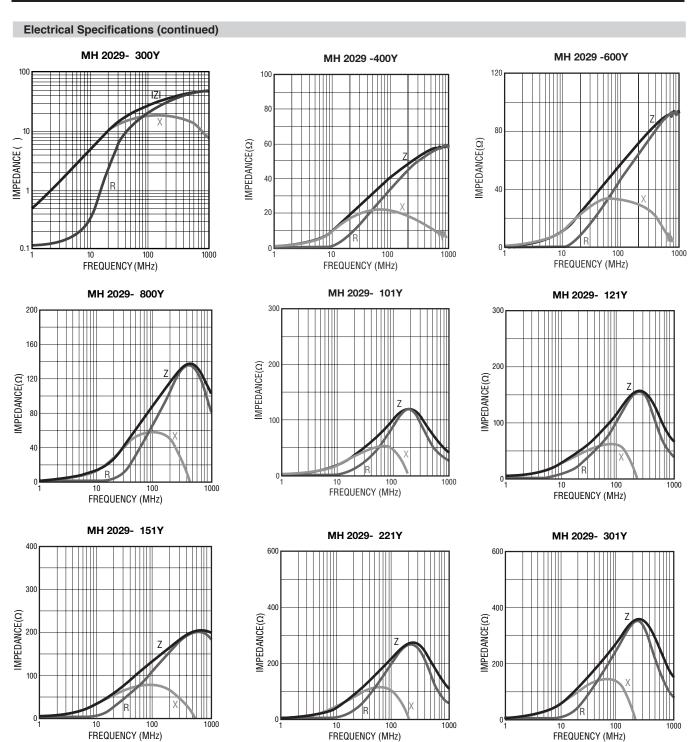


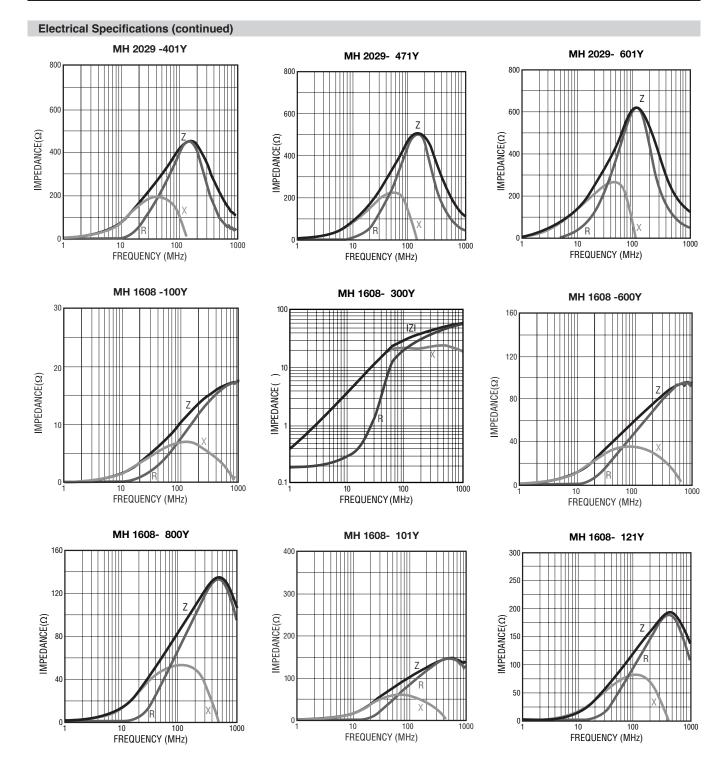
WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

- \* 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.

Specifications are subject to change without notice.

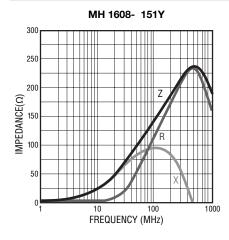
Users should verify actual device performance in their specific applications.

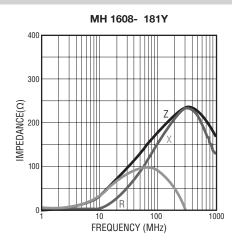


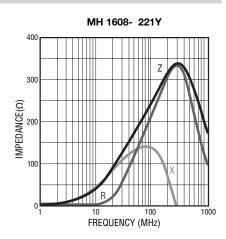


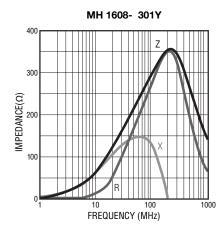
### **BOURNS**®

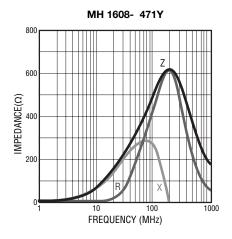
#### **Electrical Specifications (continued)**

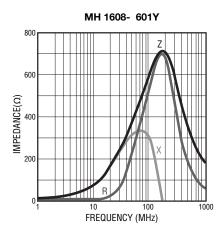




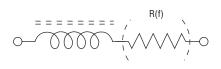




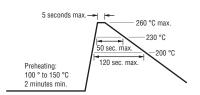




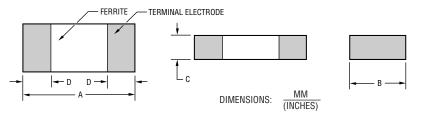
#### **Equivalent Circuit**



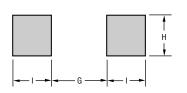
#### **Recommended Soldering**



#### **Product Dimensions**

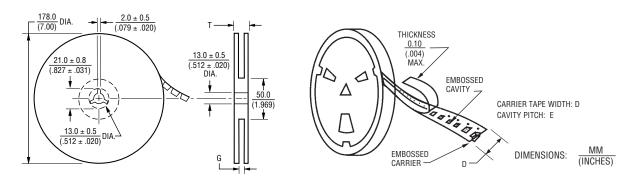


#### **Recommended Land Pattern**



Series	Α	В	С	D	G	Н	1
3261	$\frac{3.2 \pm 0.2}{(.126 \pm .008)}$	$\frac{1.6 \pm 0.2}{(.063 \pm .008)}$	$\frac{1.1 \pm 0.2}{(.043 \pm .008)}$	$\frac{0.5 \pm 0.2}{(.020 \pm .008)}$	<u>2.0</u> (.079)	1.4 (.053)	1.1 (.043)
2029	$\frac{2.0 \pm 0.2}{(.079 \pm .008)}$	$\frac{1.2 \pm 0.2}{(.047 \pm .008)}$	$\frac{0.9 \pm 0.2}{(.035 \pm .008)}$	$\frac{0.5 \pm 0.2}{(.020 \pm .008)}$	1.0 (.040)	1.0 (.040)	1.0 (.040)
1608	$\frac{1.6 \pm 0.15}{(.063 \pm .006)}$	$\frac{0.8 \pm 0.2}{(.031 \pm .008)}$	$\frac{0.8 \pm 0.2}{(.031 \pm .008)}$	$\frac{0.3 \pm 0.2}{(.012 \pm .008)}$	<u>0.7</u> (.028)	<u>0.7</u> (.028)	<u>0.7</u> (.028)

#### **Reel Dimensions**



Series	Pcs. per Reel	Gross Weight (g)	D	E	G	Т
3261	3,000	150	8.0 (.315)	<u>4.0</u> (.157)	$\frac{10.0 + 0}{(.394 + 0)}$	12.5 (.492)
2029	4,000	120	<u>8.0</u> (.315)	<u>4.0</u> (.157)	10.0 + 0 (.394 + 0)	<u>12.5</u> (.492)
1608	4,000	90	8.0 (.315)	<u>4.0</u> (.157)	10.0 + 0 (.394 + 0)	<u>12.5</u> (.492)

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### **Bourns:**

MH3261-500Y MH2029-070Y MH3261-800Y MH3261-310Y MH2029-100Y MH1608-300Y MH3261-101Y

MH1608-121Y MH1608-151Y MH1608-221Y MH1608-301Y MH1608-471Y MH1608-600Y MH1608-601Y MH1608
800Y MH2029-121Y MH2029-151Y MH2029-221Y MH2029-301Y MH2029-471Y MH2029-601Y MH2029-800Y

MH3261-260Y MH3261-190Y MH3261-601Y MH2029-300Y MH2029-101Y MH1608-100Y MH1608-101Y MH2029-400Y MH2029-401Y MH2029-600Y MH1608-181Y