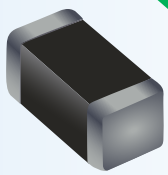
BOURNS®

MH3261-T Series

High Current Chip Ferrite Beads



*RoHS COMPLIANT & **HALOGEN FREE

Features

- Compact size
- High current
- Wide impedance range
- RoHS compliant* and halogen free**

Applications

- EMI suppression in power supplies and RF lines

Sustainability

- Small size reduces material use
- High pallet density for lower CO_2
- Eco-logistics friendly packing
- Responsibly sourced and produced
- Meets EU 94/62/EC standards

Product Overview

The Bourns® MH3261-T Series features a compact size, low profile, and low DCR, with a rated current of up to 11 A. They also provide high impedance to suppress high-frequency noise in high-density PCB assemblies.

With their small footprint, high current capability, and operating temperature range of –55 to +125 °C, these ferrite beads are well suited for EMI suppression in power supplies and RF lines.

Electrical Characteristics (@ 25 °C)

Model	Impedance (Ω) @ 100 MHz / 60 mV	DC Resistance (Ω) max.	Rated Current (mA) max.
MH3261-300T	30 ± 25 %	0.0025	11000
MH3261-500T	50 ± 25 %	0.0025	12000
MH3261-121T	120 ± 25 %	0.009	6000
MH3261-271T	270 ± 25 %	0.016	4500
MH3261-471T	470 ± 25 %	0.02	4000
MH3261-601T	600 ± 25 %	0.038	2900
MH3261-801T	800 ± 25 %	0.05	2500
MH3261-102T	1000 ± 25 %	0.075	2000

Notes:
All test data referenced to 25 °C ambient.
Rated Current ΔT 40 °C max.

Contact Information

www.bourns.com	Phone	Email
Asia-Pacific	+886-2 2562-4117	asiacus@bourns.com
Europe	+36 88 885 877	eurocus@bourns.com
Mexico	+52 614 478 0400	mexicus@bourns.com
The Americas	+1-951 781-5500	americus@bourns.com

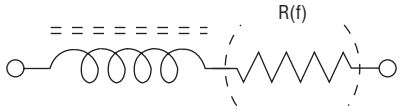
General Specifications

Operating Temperature: ..... -55 to +125 °C
(Temperature rise included)
Storage Temperature ..... -55 to +125 °C
Temperature Rise..... 40 °C at rated current
Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... N/A

Materials

Core Material..... Ferrite
Internal Conductor ..... Ag
Terminal ..... Ag/Ni/Sn
Package..... 3000 pcs. per 7-inch reel

Equivalent Circuit



How to Order

MH3261 - 300T

Model

Value Code
(see table)

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.

**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.

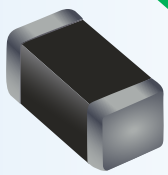
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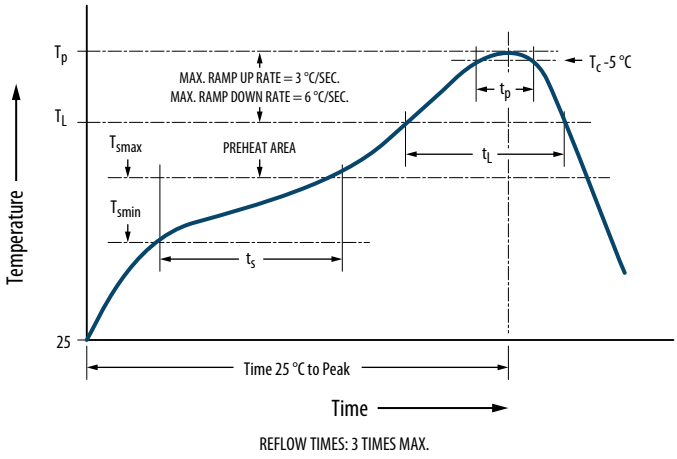
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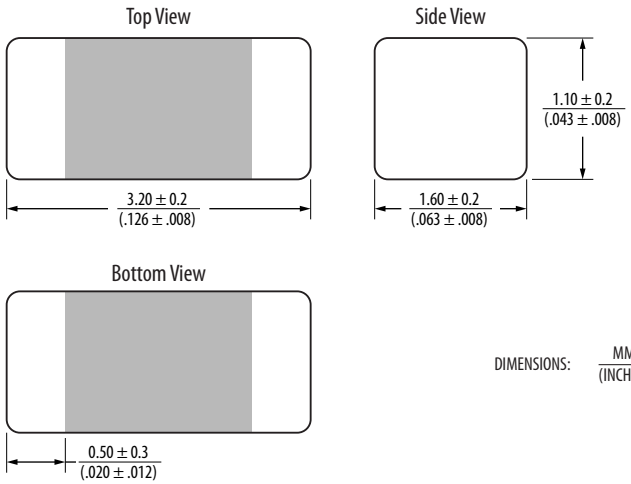
Soldering Profile



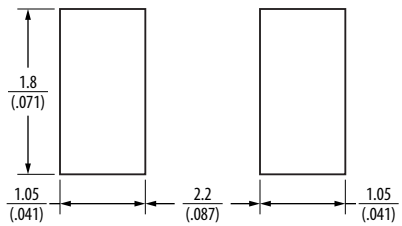
REFLOW TIMES: 3 TIMES MAX.

Profile Feature	Pb Free Assembly
Preheat - Temperature Min. (T_{smin}) - Temperature Max. (T_{smax}) - Time(t_s) from T_{smin} to T_{smax}	 150 °C 200 °C 60-120 seconds
Ramp-up Rate (T_L to T_p)	3 °C/second max.
Liquidous temperature (T_L)	217 °C
Time (t_L) maintained above T_L	60-150 seconds
Peak package body temperature (T_p)	260 °C
Time (t_p) at T_c - 5 °C (T_p should be equal to or less than T_c)	< 30 seconds
Ramp-Down Rate (T_p to T_L)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

Product Dimensions



Recommended Land Pattern



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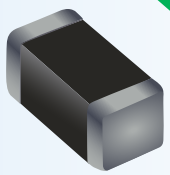
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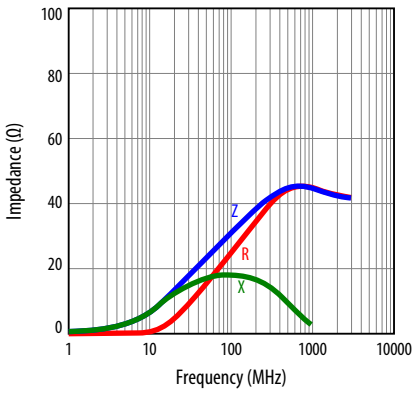
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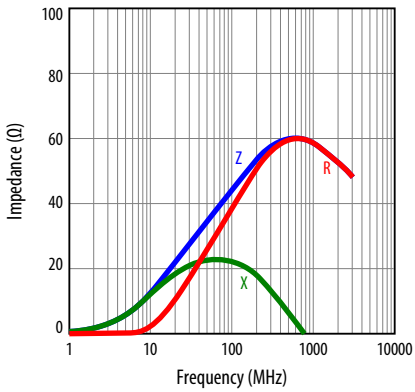
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Impedance vs. Frequency Curves

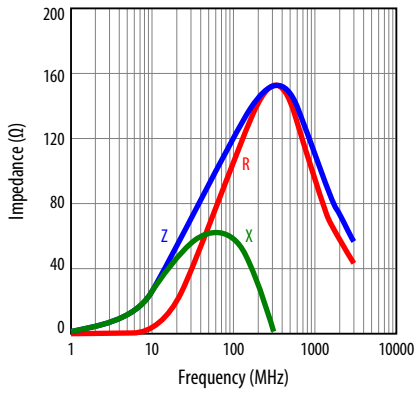
MH3261-300T



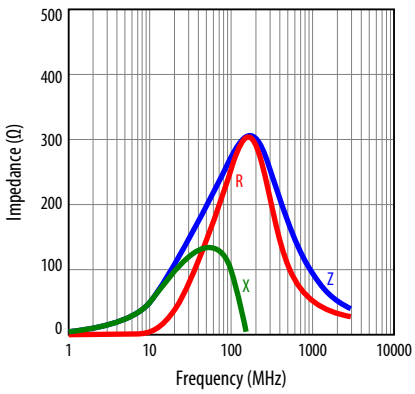
MH3261-500T



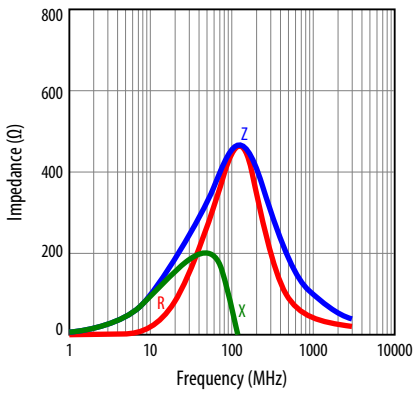
MH3261-121T



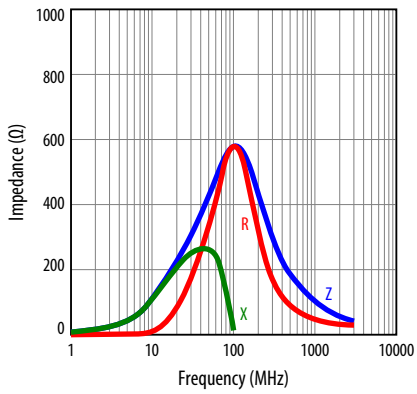
MH3261-271T



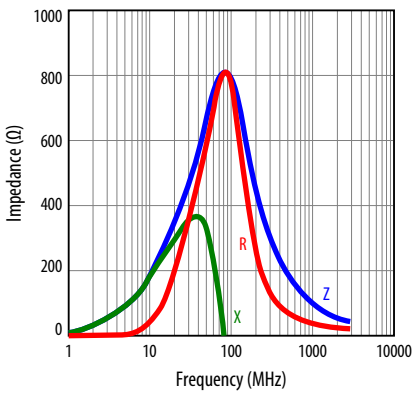
MH3261-471T



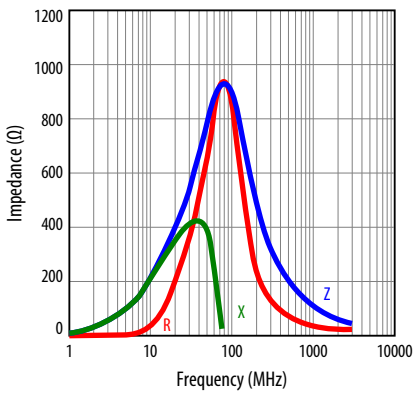
MH3261-601T



MH3261-801T



MH3261-102T



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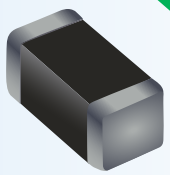
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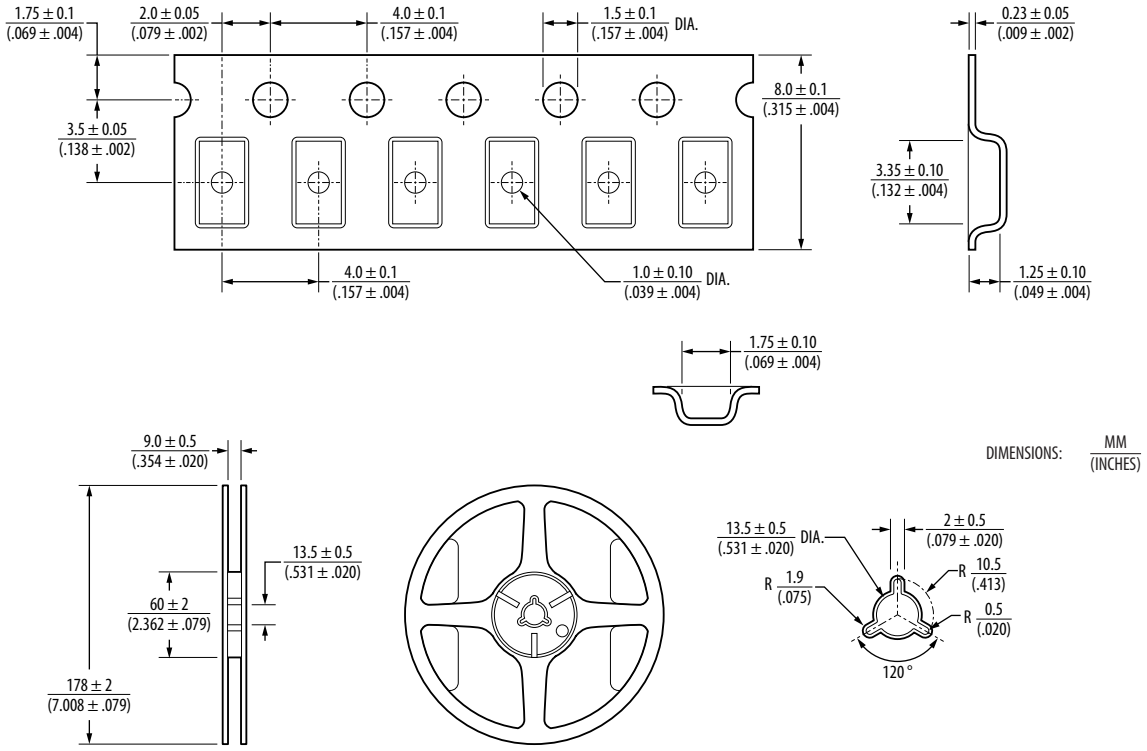
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Packaging Information



REV. 05/26

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