

Features

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

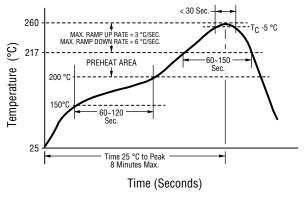
BOURNS

MH1005 Series High Current Chip Ferrite Beads

Electrical Specifications

Model Number	Impedance (Ω) at 100 MHz	RDC (mΩ) Max.	IDC (A) Max.
MH1005-300Y	30 ±25 %	22	3.0
MH1005-800Y	80 ±25 %	38	2.3
MH1005-121Y	120 ±25 %	50	2.0
MH1005-221Y	220 ±25 %	95	1.5
MH1005-301Y	300 ±25 %	150	1.2
MH1005-471Y	470 ±25 %	180	1.1
MH1005-601Y	600 ±25 %	200	1.0

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 (TL) Time (tL) maintained above TL	217 °C 60-150 seconds
Peak package body temperature (Tp)	260 °C
Time within 5 °C of Actual Peak Temperature (t_p)	< 30 seconds
Ramp-Down Rate (Tp to TL)	6 °C/second max.
Time 25 °C to Peak Temperature	8 minutes max.

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

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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Additional Information

Click these links for more information:



General Specifications

Operating Temperature

.....-55 °C to +125 °C Storage Temperature

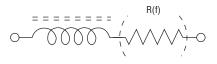
(Component Mounted)

5 °C to +125 °C
Based on max
re rise of +40 °C
el1
1)N/A

Materials

Core Material	Ferrite
Internal Conductor	.Ag or Ag/Pd
Terminal	
Packaging 10,000 pc	s./7-inch reel

Equivalent Circuit





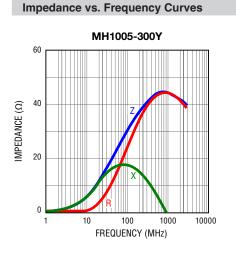
Asia-Pacific: Tel: +886-2 2562-4117 Email: asiacus@bourns.com

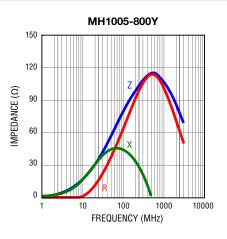
Europe: Tel: +36 88 885 877 Email: eurocus@bourns.com

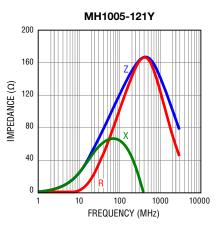
The Americas: Tel: +1-951 781-5500 Email: americus@bourns.com www.bourns.com

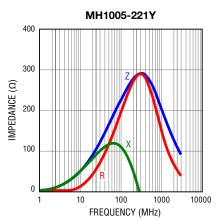
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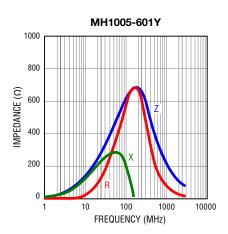
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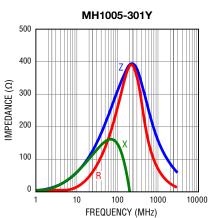


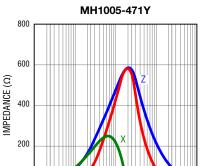














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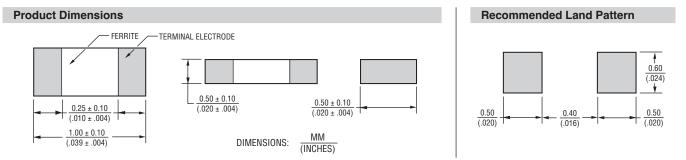
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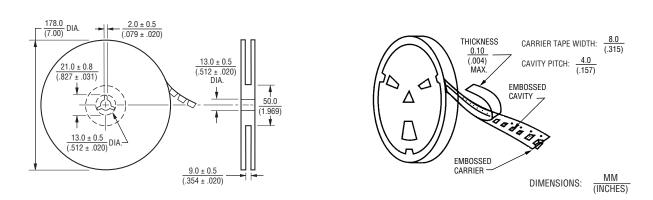
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Reel Dimensions



REV. 06/22

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