

Features

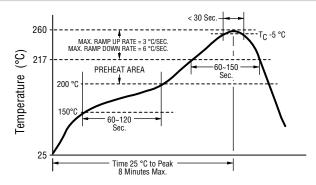
- Compact size
- High current
- Wide impedance range
- RoHS compliant* and halogen free**

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



Time (Seconds)

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) Time (t _L) maintained above T _L	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 (T _p to T _L)	6 °C/second max.	
Time 25 °C to Peak Temperature	8 minutes max.	

Additional Information

Click these links for more information:











PRODUCT SELECTOR

TECHNICAL INVENTORY LIBRARY

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CONTACT

General Specifications

Operating Temperature
.....-55 °C to +125 °C
Storage Temperature
(Component Mounted)
....-55 °C to +125 °C
Rated Current.....Based on max
temperature rise of +40 °C
Moisture Sensitivity Level......1
ESD Classification (HBM).....N/A

Materials

Core Material	Ferrite
Internal Conducto	orAg or Ag/Po
Terminal	Ag/Ni/Sr
Packaging	10,000 pcs./7-inch ree

Equivalent Circuit



BOURNS

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Email: eurocus@bourns.com

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Email: americus@bourns.com

www.bourns.com



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

Specifications are subject to change without notice.

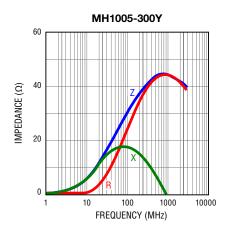
Users should verify actual device performance in their specific applications.

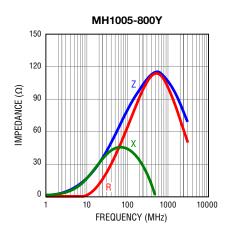
^{*} RoHS Directive 2015/863, Mar 31, 2015 and Annex.

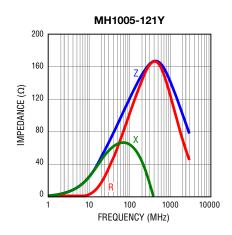
^{**}Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

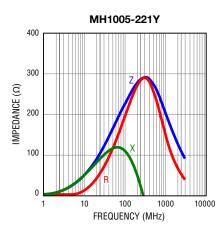
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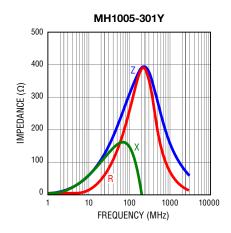
Impedance vs. Frequency Curves

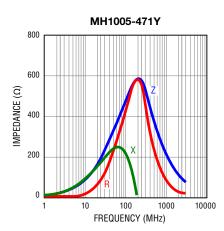


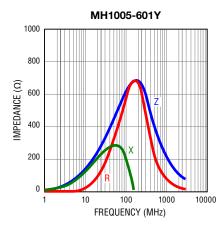










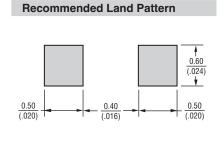


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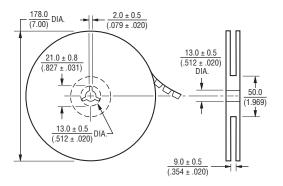
Product Dimensions FERRITE TERMINAL ELECTRODE $\frac{0.50 \pm 0.10}{(.020 \pm .004)}$ 0.50 ± 0.10 0.25 ± 0.10 $\overline{(.020 \pm .004)}$ $\overline{(.010 \pm .004)}$ 1.00 ± 0.10 MM DIMENSIONS:

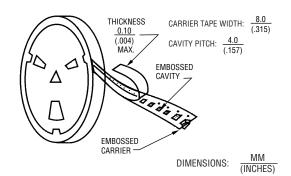
(INCHES)



Reel Dimensions

(.039 ± .004)





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NCB0603R301TR050F NCB0805A320TR050F NCB-H1206B680TR300F CZB1JGTTD221P CZB1JGTTD600P CZB2AGTTD301P

CZB2BFTTE301P CZB2BFTTE601P 4221R-1 EMI0805R-600 SBY100505T-100Y-N NCB-GH0402D121TR060F NCB0402P301TR005F

NCB0603R152TR030F NCB0805A121TR050F NCB0805A301TR070F NCB3312K900TR500F NCB-H0805A221TR300F

NCB0402P221TR030F NCB0805A102TR040F NCB1806E151TR020F NCB-H0402P100TR200F NCB-H0603R121TR300F NCB-H0805A220TR600F NCB-H0805A390TR400F NCB-H1206B601TR200F CZB1JGTTD202P CBH160808W221T WLBD1005HCU330TL

WLBD2012HCU121TH WLBD2012HCU221TH WQBD1608HCU121TH WLBD1608K2U252TB VLU0810-102KBC12

WLBD1608K2U800TP BMB2A0080AN4 SZ1608F470TF FBSHC0805-331-302R HFJ100505T-601Y-N HFY100505T-221Y-N

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