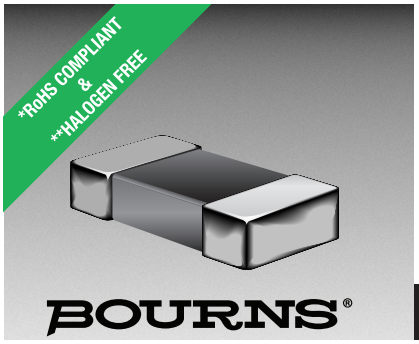
THE DATASHEET OF

MG2029-101Y



Features

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

Applications

- Power supply lines
- IC power lines
- Signal lines

MG, MU, MZ Series High Impedance Chip Ferrite Beads

Electrical Specifications

Model Number	Impedance (Ω) at 100 MHz	RDC (Ω) Max.	IDC (mA) Max.
MU3261-300Y	30 ±25 %	0.20	500
MU3261-600Y	60 ±25 %	0.20	400
MU3261-750Y	75 ±25 %	0.20	400
MU3261-101Y	100 ±25 %	0.15	500
MU3261-121Y	120 ±25 %	0.15	900
MU3261-221Y	220 ±25 %	0.35	700
MU3261-301Y	300 ±25 %	0.15	700
MU3261-471Y	470 ±25 %	0.35	400
MU3261-601Y	600 ±25 %	0.30	400
MU3261-801Y	800 ±25 %	0.60	300
MU3261-102Y	1000 ±25 %	0.60	300
MG3261-151Y	150 ±25 %	0.15	900
MG3261-301Y	300 ±25 %	0.15	700
MG2029-100Y	10 ±25 %	0.20	400
MG2029-300Y	30 ±25 %	0.10	400
MG2029-400Y	40 ±25 %	0.20	300
MU2029-600Y	60 ±25 %	0.10	900
MG2029-800Y	80 ±25%	0.20	300
MG2029-101Y	100 ±25 %	0.20	400
MG2029-121Y	120 ±25 %	0.25	300
MU2029-151Y	150 ±25 %	0.20	800
MU2029-221Y	220 ±25 %	0.30	500
MU2029-301Y	300 ±25 %	0.30	500
MU2029-471Y	470 ±25 %	0.35	700
MZ2029-601Y	600 ±25 %	0.40	100
MZ2029-601T	600 ±25 %	0.40	200
MG1608-300Y	30 ±25 %	0.20	200
MG1608-400Y	40 ±25 %	0.30	300
MU1608-600Y	60 ±25 %	0.20	700
MG1608-800Y	80 ±25 %	0.30	300
MG1608-101Y	100 ±25 %	0.25	200
MG1608-121Y	120 ±25 %	0.30	200
MU1608-151Y	150 ±25 %	0.25	600
MU1608-221Y	220 ±25 %	0.30	200
MU1608-301Y	300 ±25 %	0.35	150
MU1608-471Y	470 ±25 %	0.45	350
MZ1608-601Y	600 ±25 %	0.45	100
MZ1608-102Y	1000 ±25 %	0.60	100
MU1005-100Y	10 ±25 %	0.10	500
MU1005-300Y	30 ±25 %	0.20	300
MU1005-600Y	60 ±25 %	0.25	300
MU1005-121Y	120 ±25 %	0.30	100
MU1005-151Y	150 ±25 %	0.30	100
MU1005-221Y	220 ±25 %	0.40	100
MU1005-241Y	240 ±25 %	0.60	100
MU1005-301Y	300 ±25 %	0.50	100
MU1005-471Y	470 ±25 %	0.65	100
MU1005-601Y	600 ±25 %	0.80	80
MU1005-102Y	1000 ±25 %	1.20	80

Additional Information

Click these links for more information:

PRODUCT | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

General Specifications

Operating Temperature .....-55 °C to +125 °C
Storage Temperature .....-55 °C to +125 °C
Rated Current.....Based on max .....temperature rise of +20 °C

Materials

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

BOURNS®

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Tel: +886-2 2562-4117
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Tel: +1-951 781-5500
Email: americus@bourns.com

www.bourns.com

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

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
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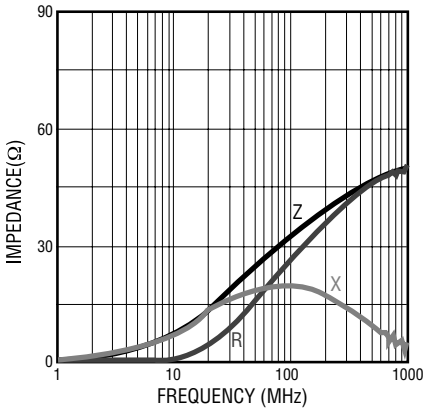
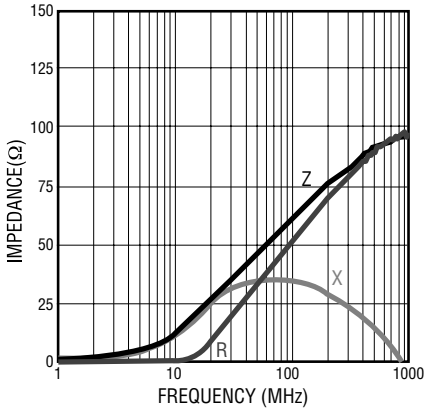
Electrical Specifications (continued)

MU 3261- 300Y



MU 3261- 600Y



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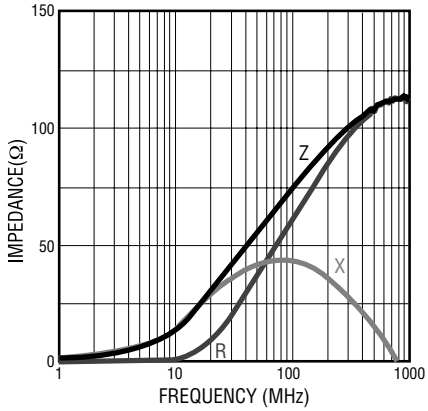

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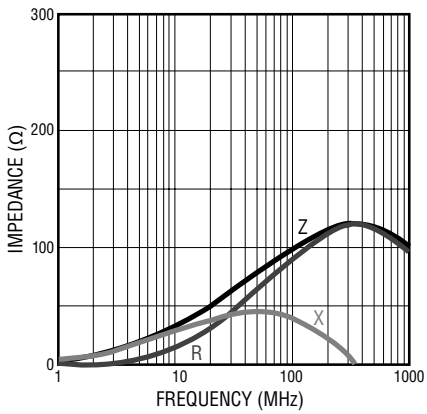

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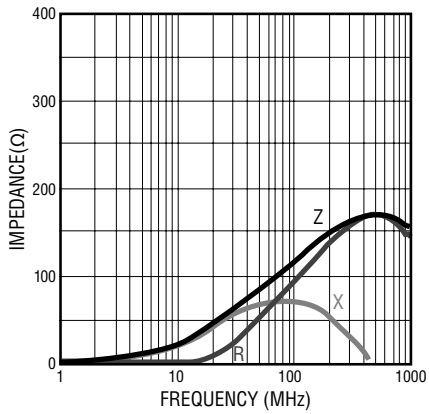

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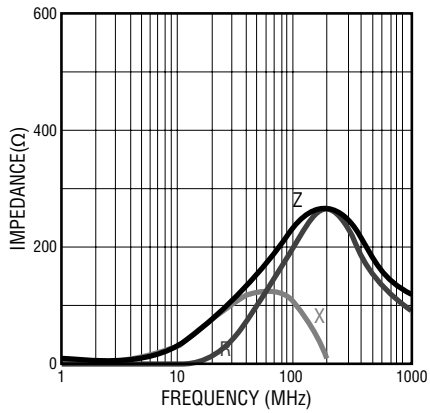

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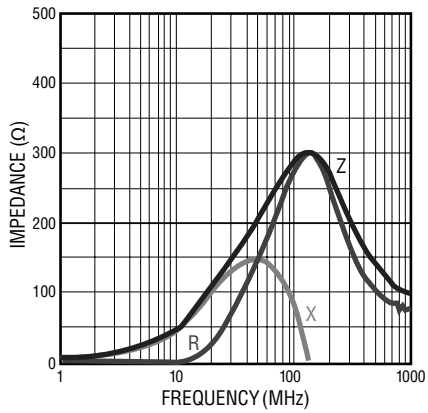

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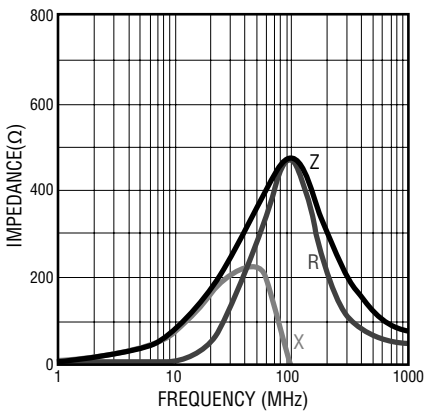
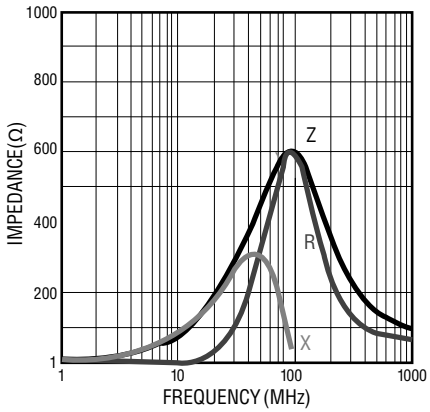


MU 3261- 601Y



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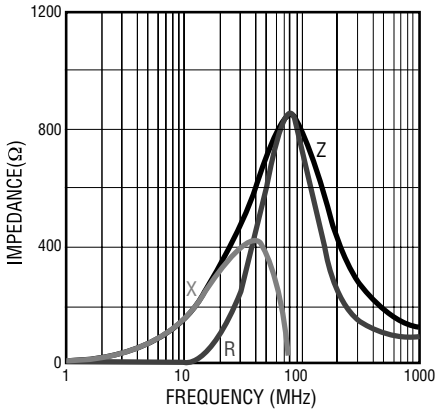
Electrical Specifications (continued)

MU 3261- 801Y



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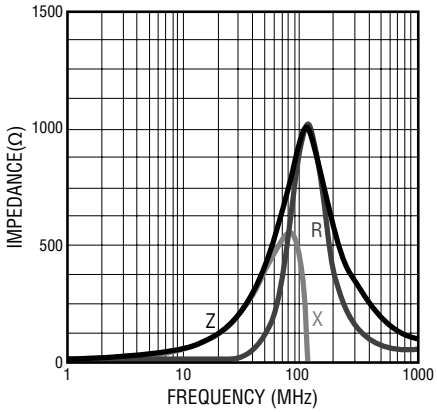

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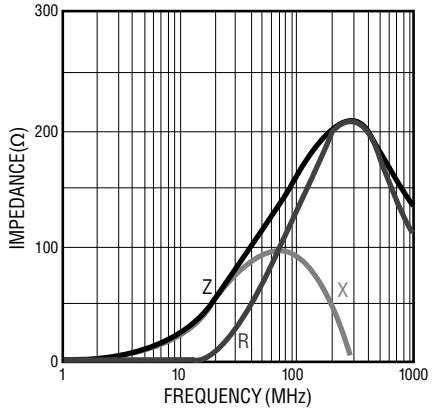

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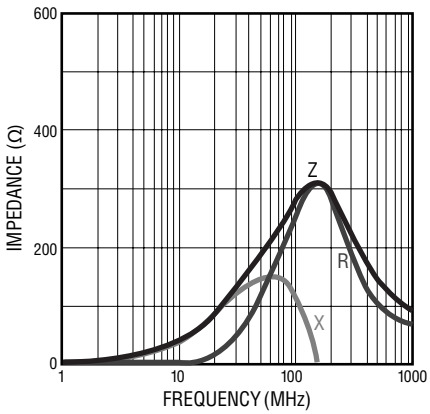

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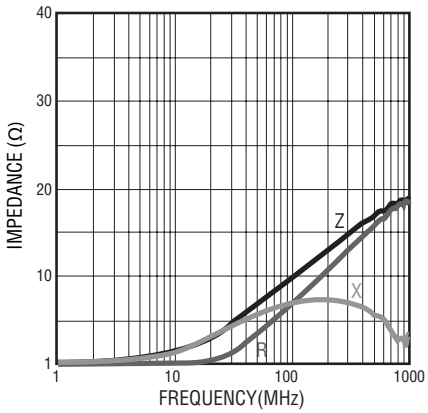

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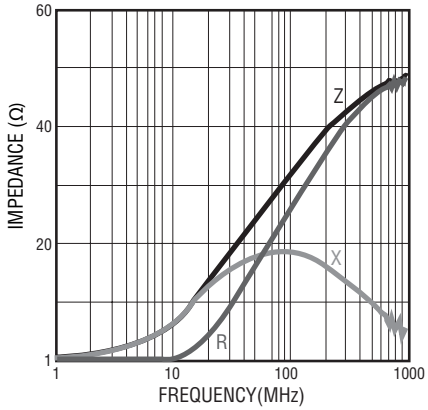

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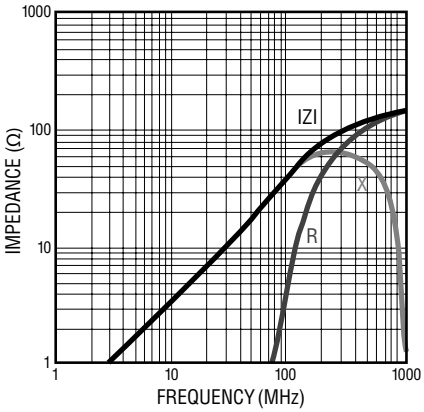
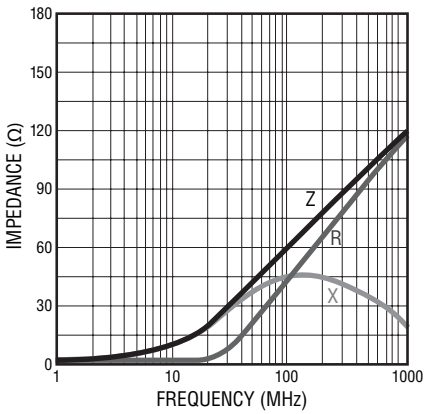


MU 2029- 600Y



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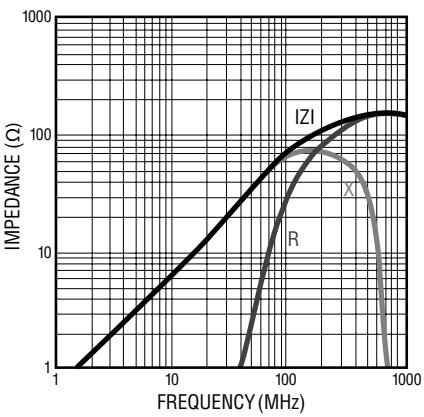

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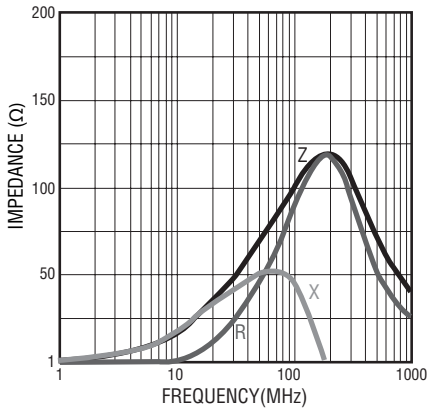
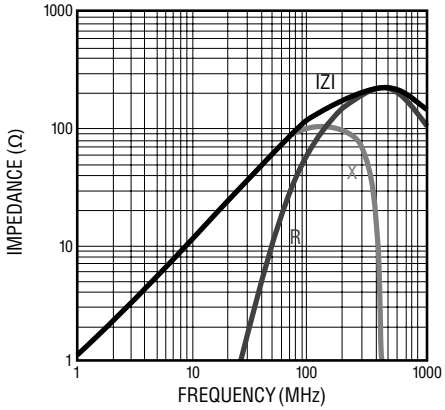
Electrical Specifications (continued)

MG 2029- 101Y



MG 2029- 121Y



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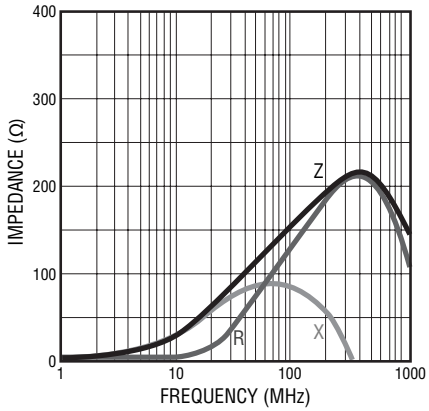

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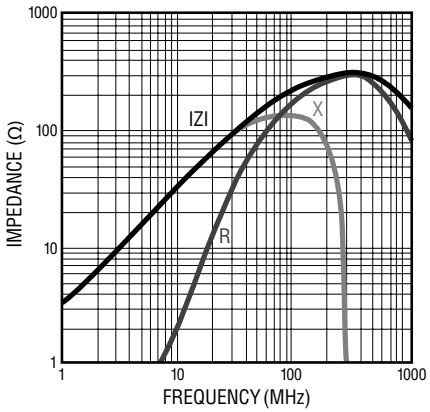

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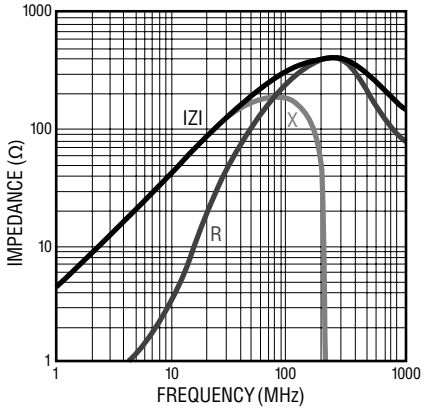

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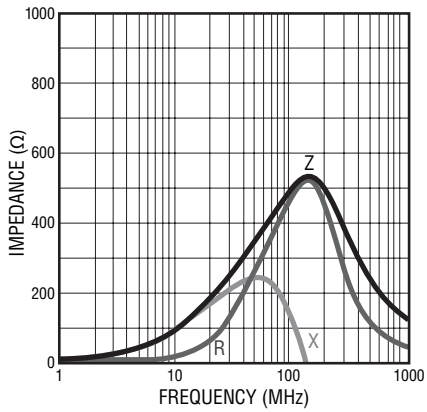

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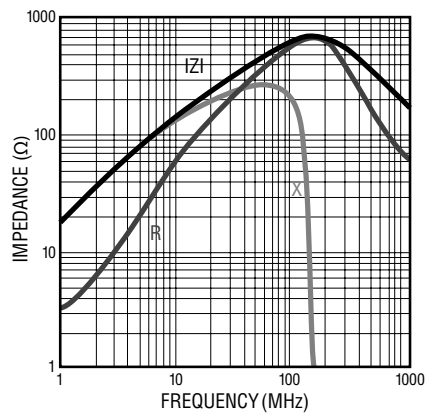

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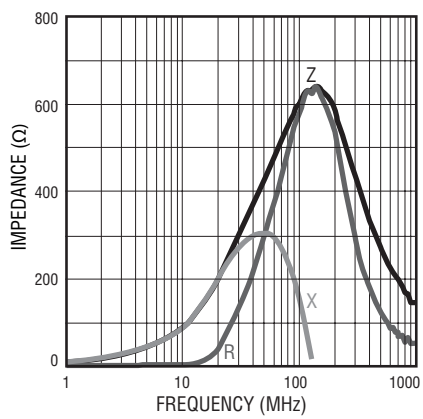
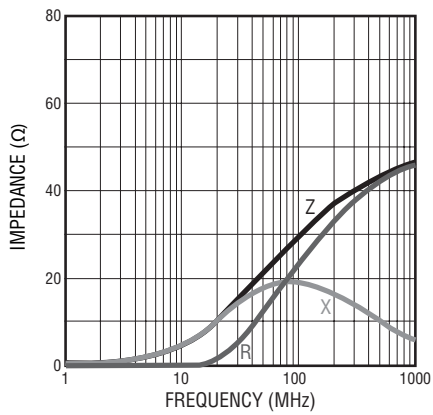


MU 1608- 300Y



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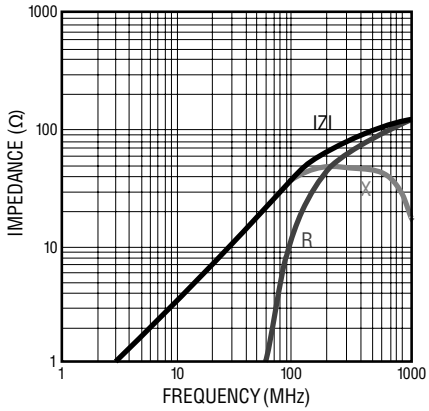
Electrical Specifications (continued)

MG 1608- 400Y



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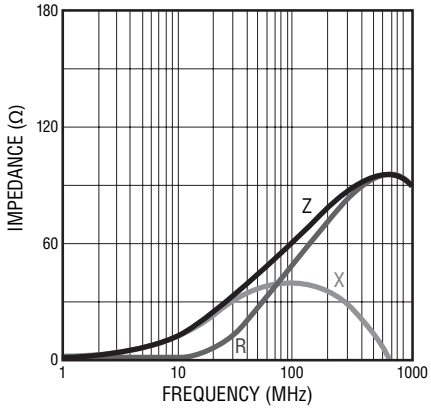

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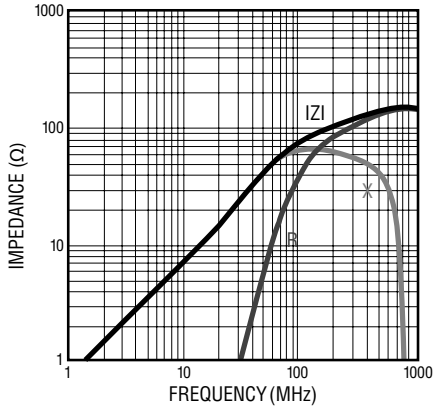

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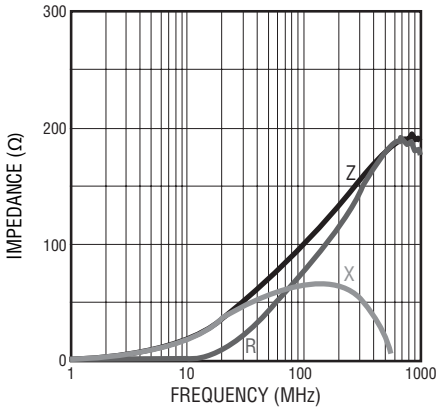

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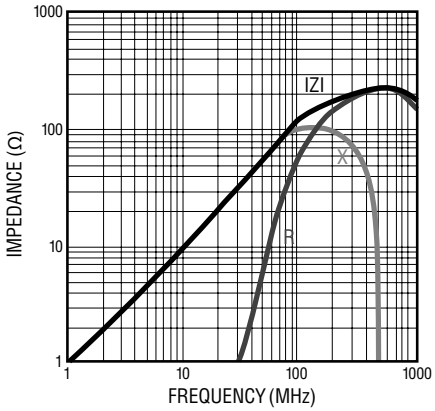

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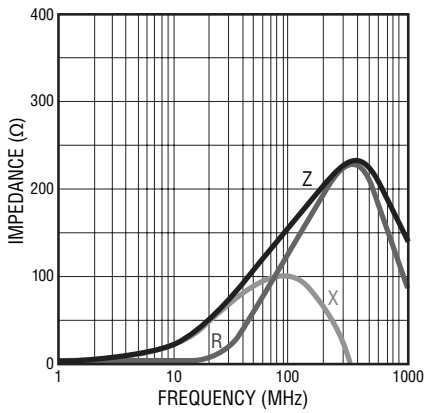

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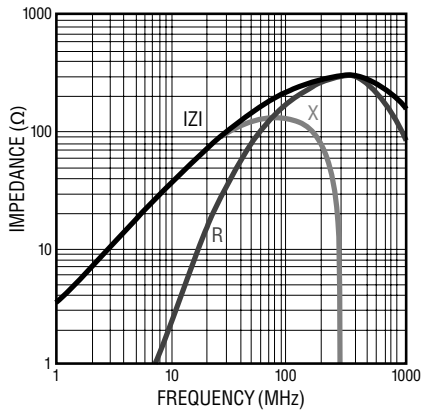

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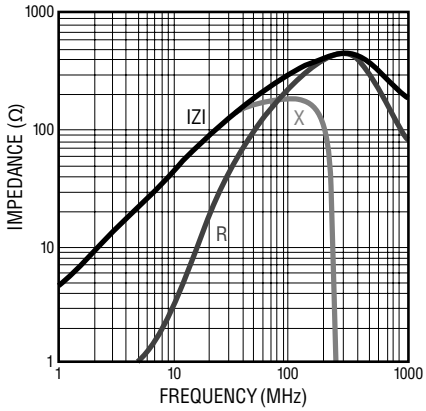

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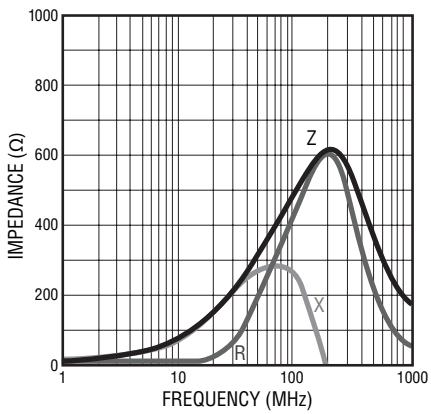

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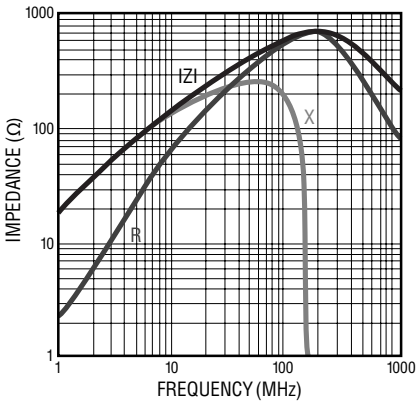
Electrical Specifications (continued)

MZ 1608- 601Y



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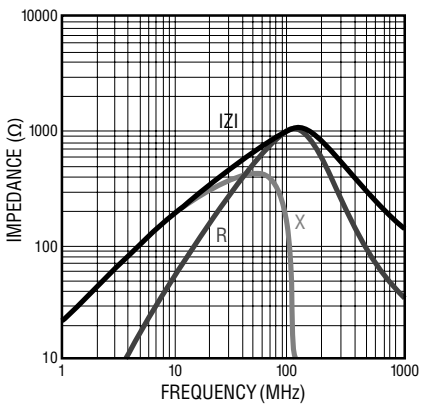
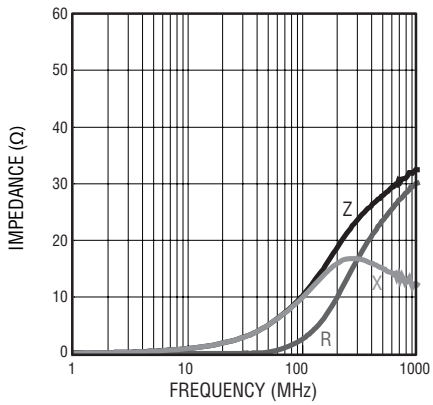
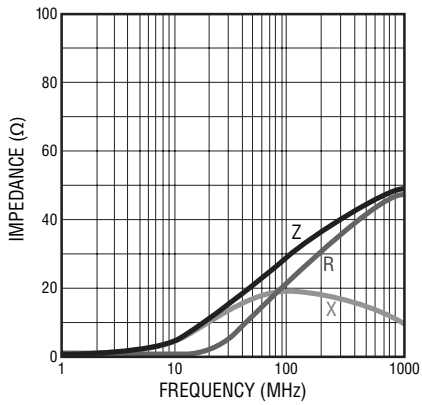


MU 1005- 100Y



MU 1005- 300Y



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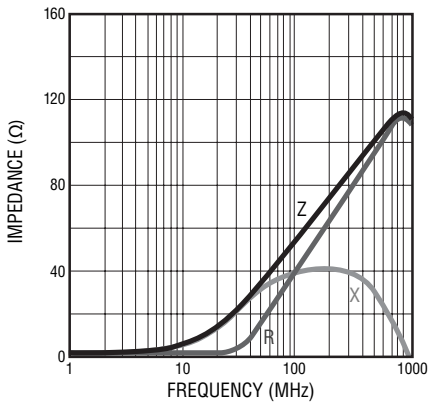

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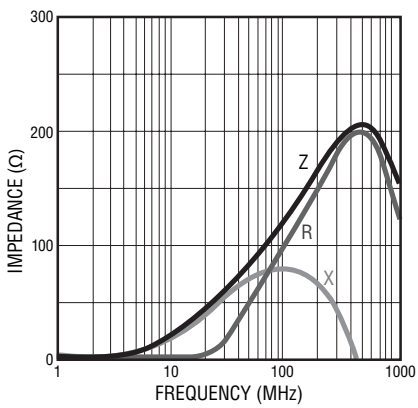
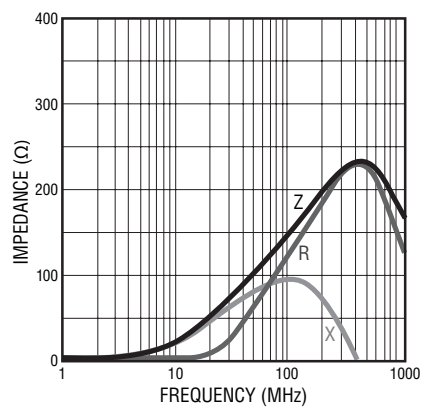


MU 1005- 151Y



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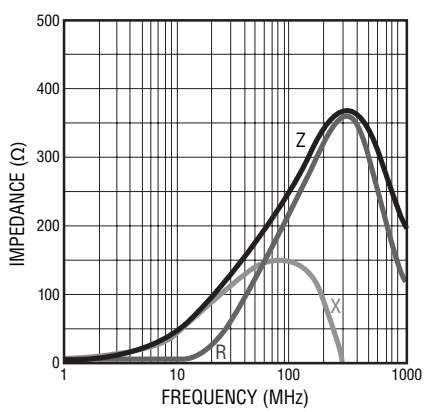

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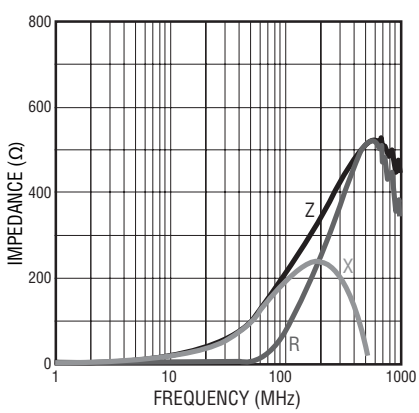

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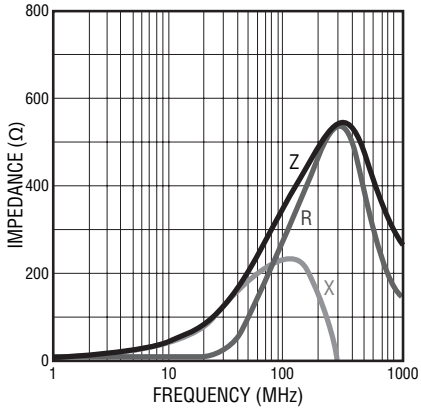
Electrical Specifications (continued)

MU 1005- 301Y



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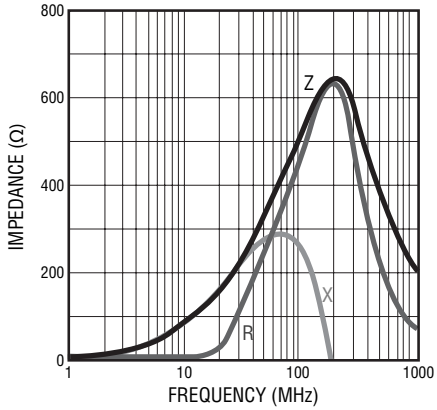

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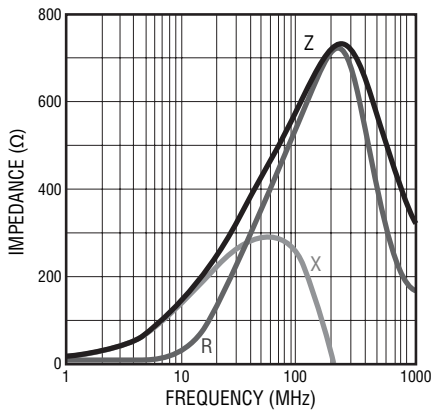

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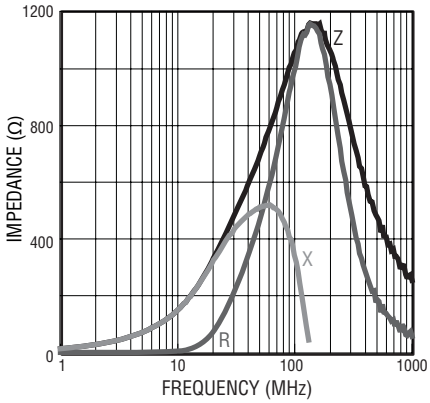
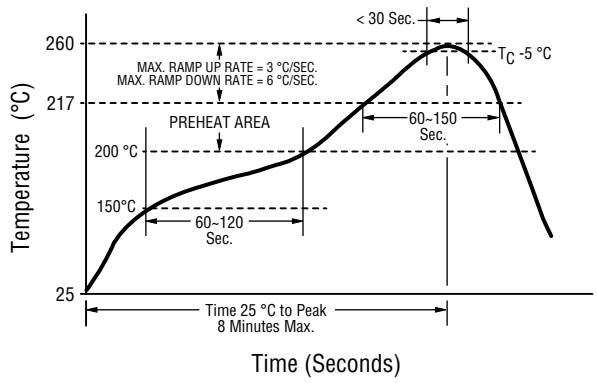


Soldering Profile



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) Time (t_L) maintained above T_L	217 °C 60-150 seconds
Peak package body temperature (T_p)	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.

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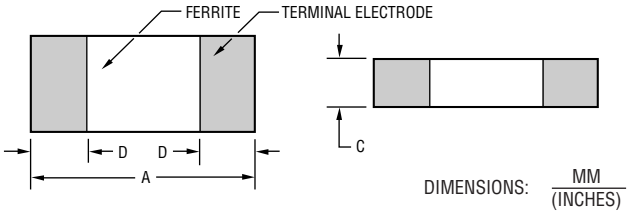
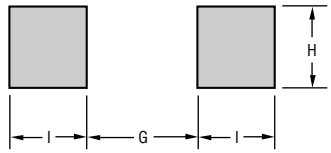
MG, MU, MZ Series High Impedance Chip Ferrite Beads

BOURNS®

Product Dimensions

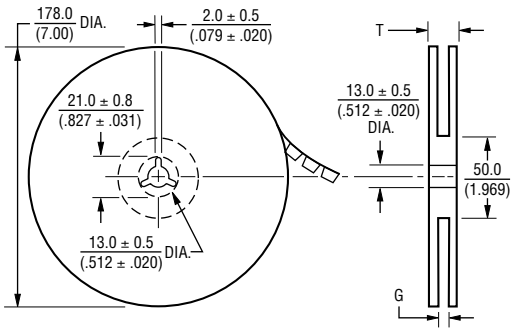


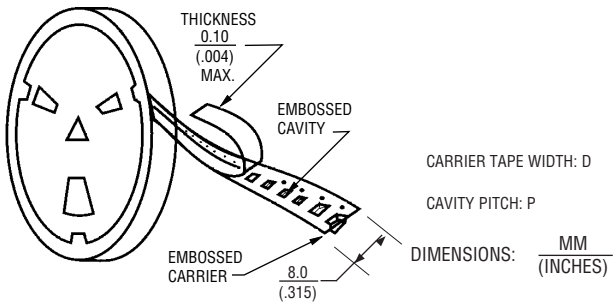
Recommended Land Pattern



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)	2.2 (.087)	1.8 (.071)	1.05 (.041)
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)
1005	1.0 ± 0.10 (.039 ± .004)	0.5 ± 0.1 (.020 ± .004)	0.5 ± 0.1 (.020 ± .004)	0.25 ± 0.1 (.010 ± .004)	0.5 (.020)	0.55 (.022)	0.7 (.028)

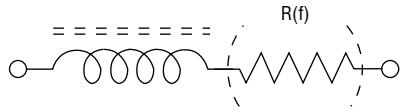
Reel Dimensions





Series	Pcs. per Reel	D	P	G	T
3261	3,000	8.0 (.315)	4.0 (.157)	10.0 + 0 (.394 + 0)	12.5 (.492)
2029	4,000		4.0 (.157)		
1608	4,000		4.0 (.157)		
1005	10,000		2.0 (.079)		

Equivalent Circuit



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