



## 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

# MH Series High Current Chip Ferrite Beads

## Electrical Specifications

| Model Number | Impedance ( $\Omega$ )<br>at 100 MHz | RDC (m $\Omega$ )<br>Max. | IDC (A)<br>Max. |
|--------------|--------------------------------------|---------------------------|-----------------|
| MH4532-700Y  | 70 $\pm$ 25 %                        | 30                        | 6.0             |
| MH4532-800Y  | 80 $\pm$ 25 %                        | 10                        | 6.0             |
| MH4532-121Y  | 120 $\pm$ 25 %                       | 50                        | 3.0             |
| MH4532-131Y  | 130 $\pm$ 25 %                       | 40                        | 3.0             |
| MH4532-151Y  | 150 $\pm$ 25 %                       | 20                        | 5.0             |
| MH4532-681Y  | 680 $\pm$ 25 %                       | 30                        | 4.0             |
| MH4532-132Y  | 1300 $\pm$ 25 %                      | 60                        | 3.0             |
| MH4516-600Y  | 60 $\pm$ 25 %                        | 10                        | 6.0             |
| MH4516-750Y  | 75 $\pm$ 25 %                        | 25                        | 3.0             |
| MH4516-800Y  | 80 $\pm$ 25 %                        | 50                        | 3.0             |
| MH4516-102Y  | 1000 $\pm$ 25 %                      | 150                       | 1.5             |
| MH3261-190Y  | 19 $\pm$ 25 %                        | 40                        | 3.0             |
| MH3261-260Y  | 26 $\pm$ 25 %                        | 40                        | 3.0             |
| MH3261-310Y  | 31 $\pm$ 25 %                        | 40                        | 3.0             |
| MH3261-500Y  | 50 $\pm$ 25 %                        | 25                        | 3.0             |
| MH3261-700Y  | 70 $\pm$ 25 %                        | 30                        | 4.0             |
| MH3261-800Y  | 80 $\pm$ 25 %                        | 30                        | 4.0             |
| MH3261-900Y  | 90 $\pm$ 25 %                        | 40                        | 3.0             |
| MH3261-101Y  | 100 $\pm$ 25 %                       | 30                        | 4.0             |
| MH3261-121Y  | 120 $\pm$ 25 %                       | 100                       | 2.0             |
| MH3261-151Y  | 150 $\pm$ 25 %                       | 100                       | 2.0             |
| MH3261-301Y  | 300 $\pm$ 25 %                       | 200                       | 1.0             |
| MH3261-471Y  | 470 $\pm$ 25 %                       | 200                       | 1.0             |
| MH3261-501Y  | 500 $\pm$ 25 %                       | 40                        | 3.0             |
| MH3261-601Y  | 600 $\pm$ 25 %                       | 100                       | 2.0             |
| MH2029-070Y  | 7 $\pm$ 25 %                         | 30                        | 3.0             |
| MH2029-100Y  | 10 $\pm$ 25 %                        | 10                        | 6.0             |
| MH2029-300Y  | 30 $\pm$ 25 %                        | 25                        | 3.0             |
| MH2029-400Y  | 40 $\pm$ 25 %                        | 20                        | 5.0             |
| MH2029-600Y  | 60 $\pm$ 25 %                        | 20                        | 5.0             |
| MH2029-800Y  | 80 $\pm$ 25 %                        | 40                        | 3.0             |
| MH2029-101Y  | 100 $\pm$ 25 %                       | 100                       | 2.0             |
| MH2029-121Y  | 120 $\pm$ 25 %                       | 100                       | 2.0             |
| MH2029-151Y  | 150 $\pm$ 25 %                       | 100                       | 2.0             |
| MH2029-221Y  | 220 $\pm$ 25 %                       | 100                       | 2.0             |
| MH2029-301Y  | 300 $\pm$ 25 %                       | 200                       | 1.0             |
| MH2029-401Y  | 400 $\pm$ 25 %                       | 100                       | 2.0             |
| MH2029-471Y  | 470 $\pm$ 25 %                       | 200                       | 1.0             |
| MH2029-601Y  | 600 $\pm$ 25 %                       | 200                       | 1.0             |
| MH1608-100Y  | 10 $\pm$ 25 %                        | 100                       | 6.0             |
| MH1608-300Y  | 30 $\pm$ 25 %                        | 60                        | 3.0             |
| MH1608-600Y  | 60 $\pm$ 25 %                        | 40                        | 3.0             |
| MH1608-800Y  | 80 $\pm$ 25 %                        | 40                        | 3.0             |
| MH1608-101Y  | 100 $\pm$ 25 %                       | 40                        | 3.0             |
| MH1608-121Y  | 120 $\pm$ 25 %                       | 100                       | 2.0             |
| MH1608-151Y  | 150 $\pm$ 25 %                       | 100                       | 2.0             |
| MH1608-221Y  | 220 $\pm$ 25 %                       | 100                       | 2.0             |
| MH1608-301Y  | 300 $\pm$ 25 %                       | 200                       | 1.0             |
| MH1608-471Y  | 470 $\pm$ 25 %                       | 200                       | 1.0             |
| MH1608-601Y  | 600 $\pm$ 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)

4532 Series.....1.5 F (Kg)

4516 Series.....1.0 F (Kg)

3261 Series.....1.0 F (Kg)

2029 Series.....0.6 F (Kg)

1608 Series.....0.5 F (Kg)

## Materials

Core Material.....Ferrite

Internal Conductor.....Ag or Ag/Pd

Terminal.....Ag/Ni/Sn

\*RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

Specifications are subject to change without notice.

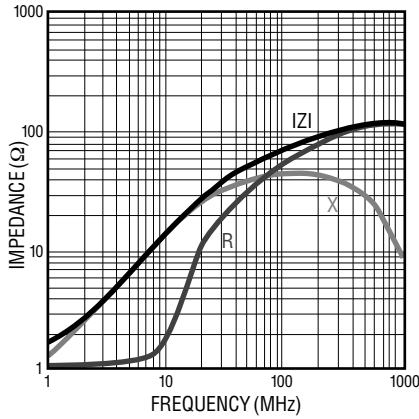
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time. Users should verify actual device performance in their specific applications.

# MH Series High Current Chip Ferrite Beads

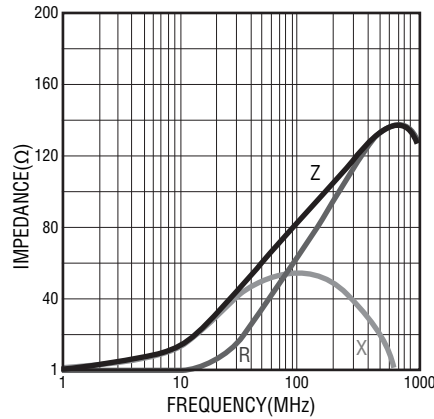
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## Electrical Specifications (continued)

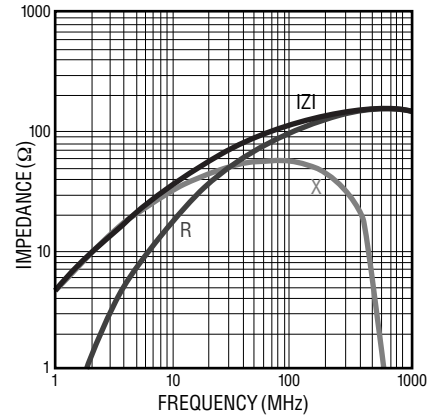
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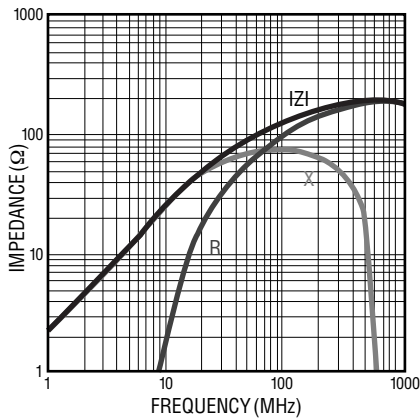
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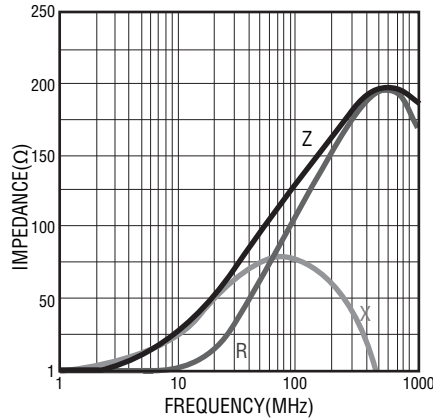
**MH 4532- 121Y**



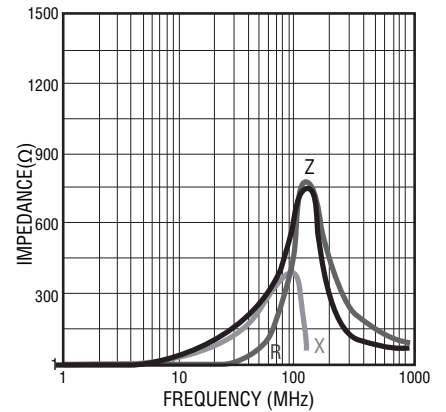
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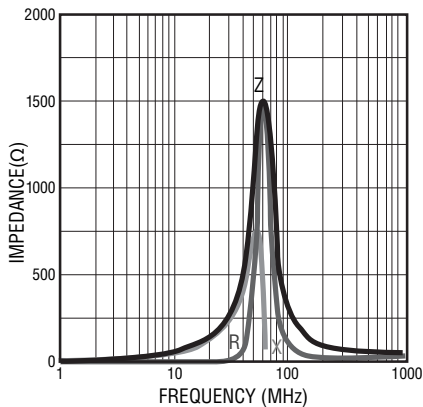
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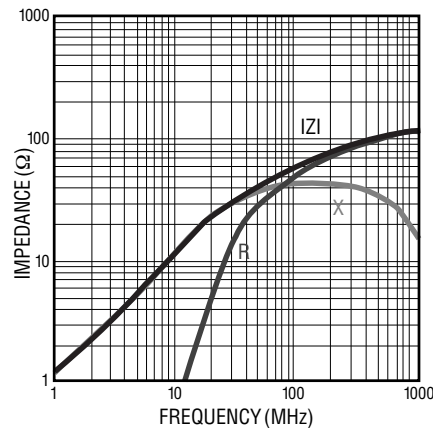
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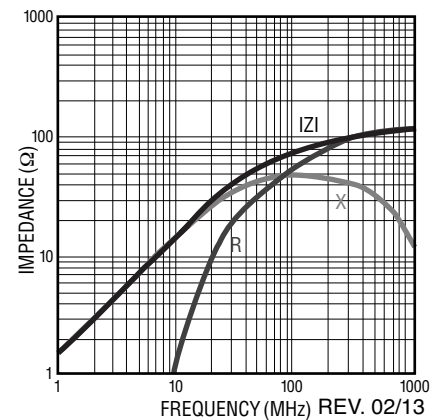
**MH 4532- 132Y**



**MH 4516- 600Y**



**MH 4516- 750Y**



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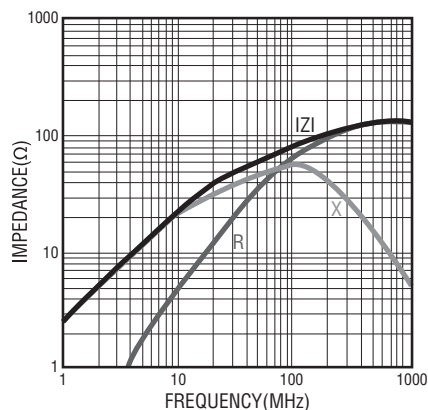
REV. 02/13

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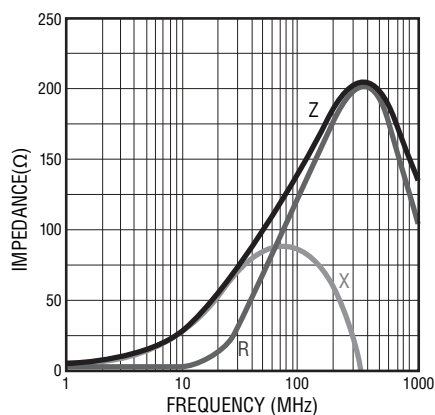
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## Electrical Specifications (continued)

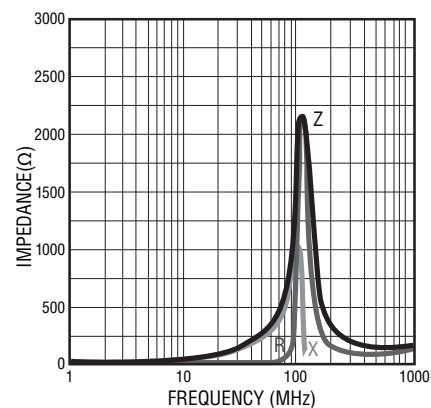
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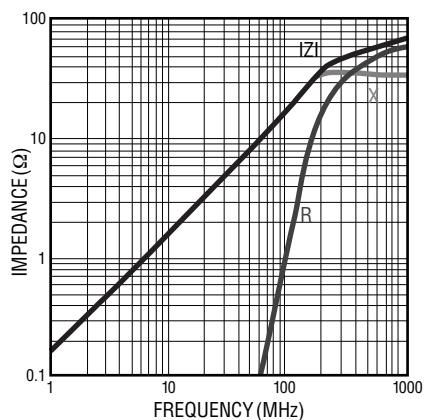
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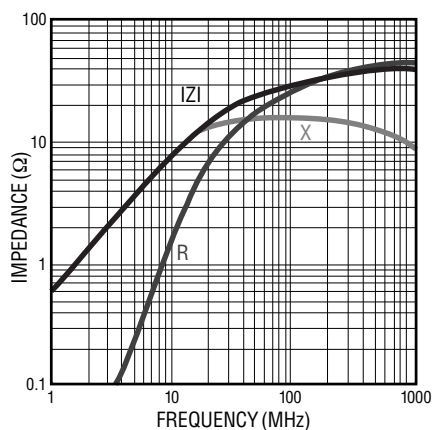
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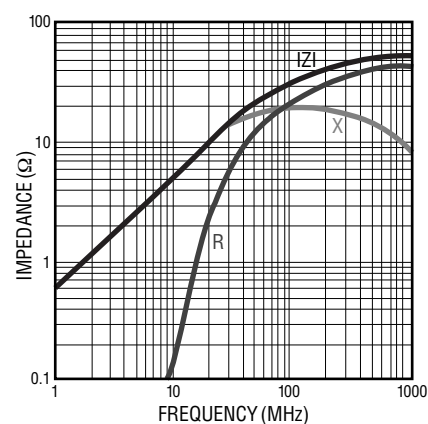
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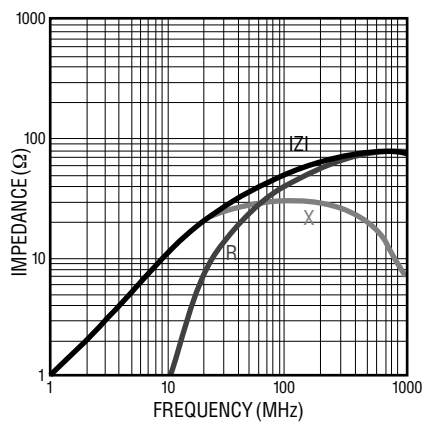
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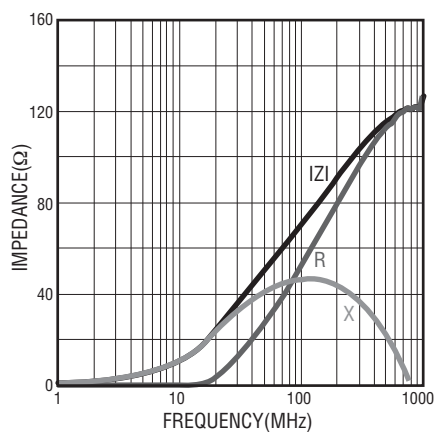
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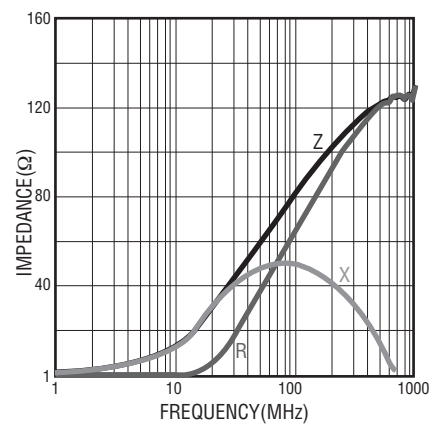
**MH 3261- 500Y**



**MH 3261- 700Y**



**MH 3261- 800Y**



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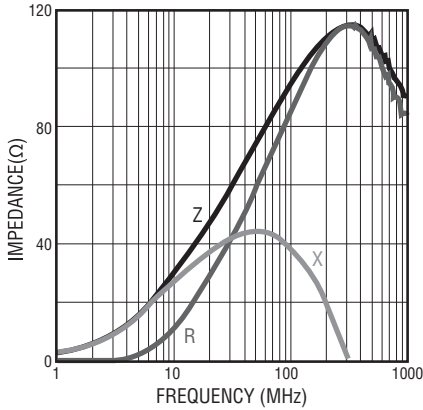
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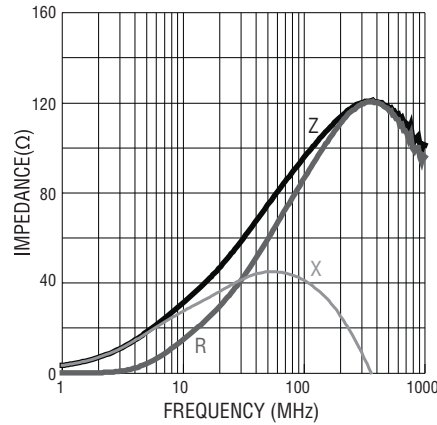
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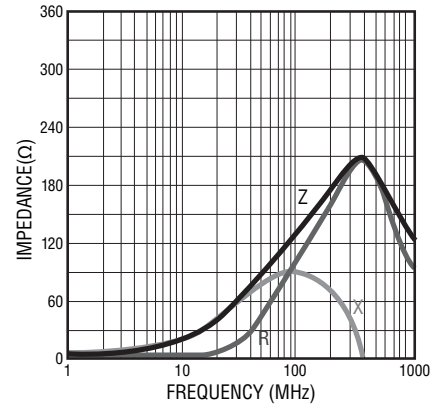
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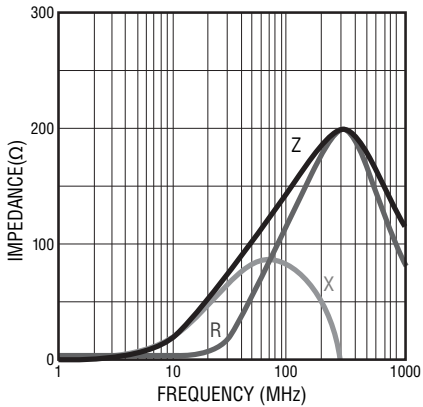
**MH 3261- 101Y**



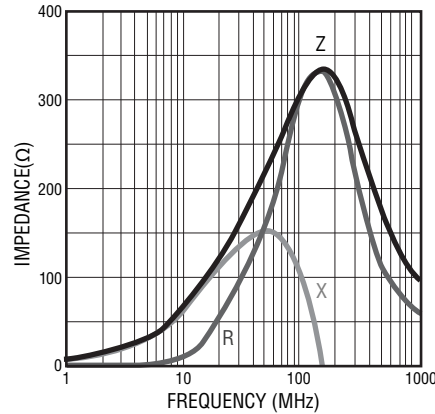
**MH 3261- 121Y**



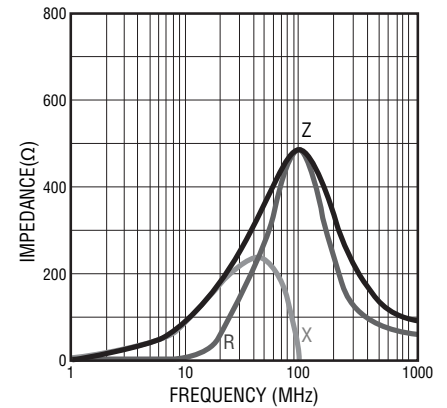
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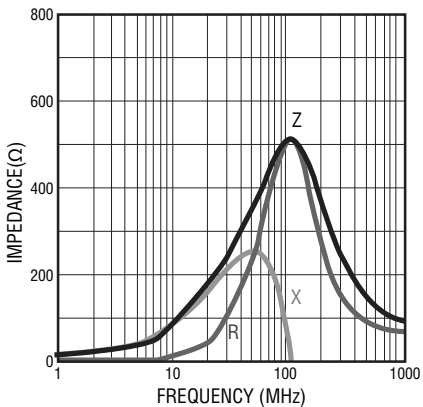
**MH 3261- 301Y**



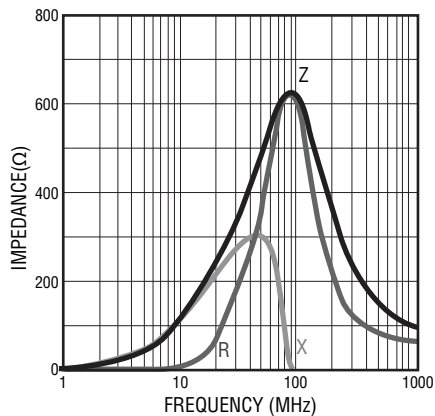
**MH 3261- 471Y**



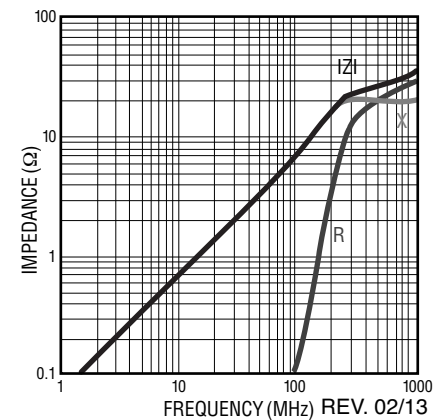
**MH 3261- 501Y**



**MH 3261- 601Y**



**MH 2029- 070Y**



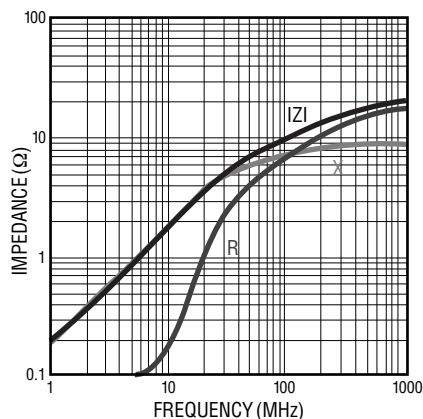
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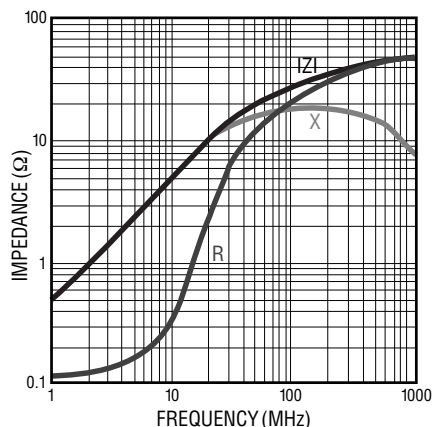
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## Electrical Specifications (continued)

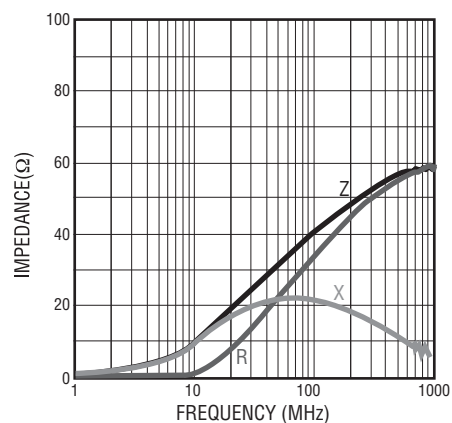
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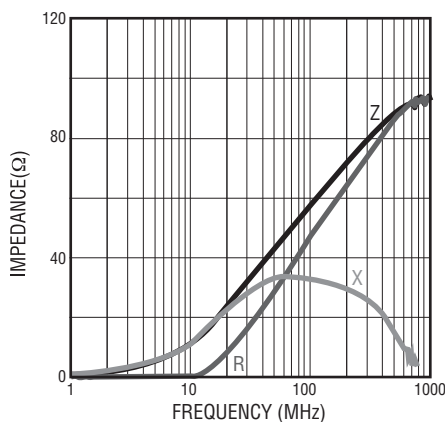
**MH 2029- 300Y**



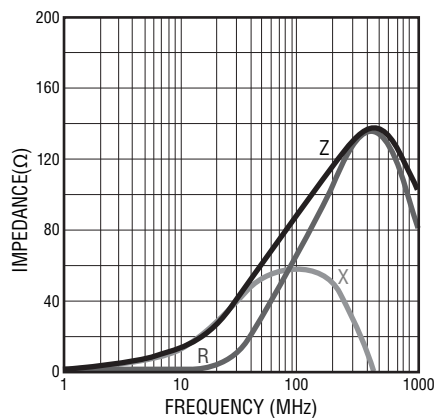
**MH 2029 -400Y**



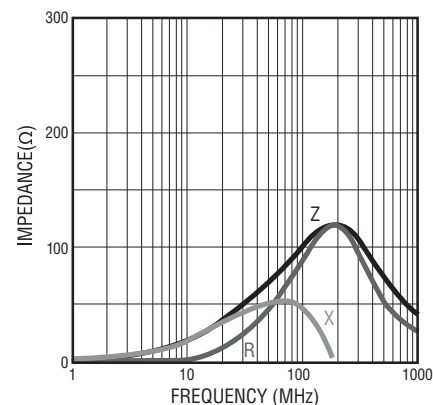
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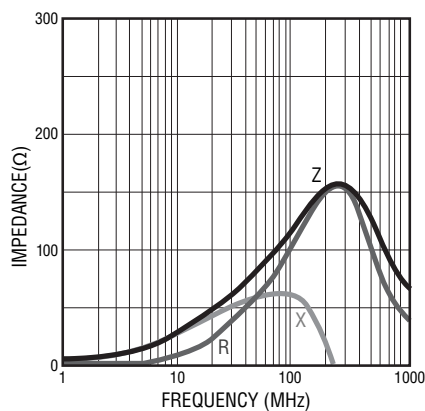
**MH 2029- 800Y**



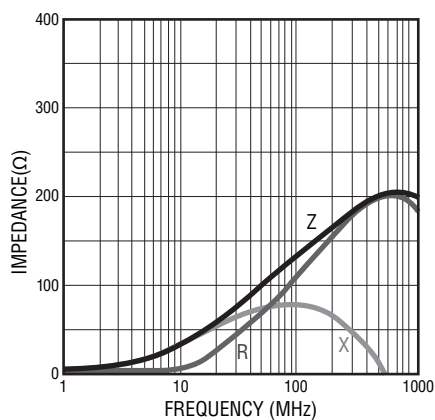
**MH 2029- 101Y**



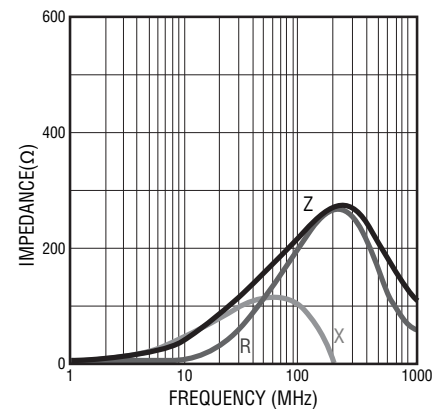
**MH 2029- 121Y**



**MH 2029- 151Y**



**MH 2029- 221Y**



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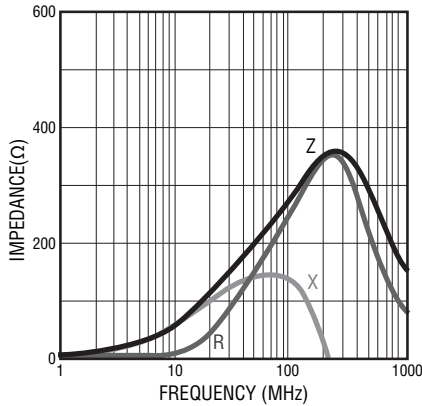
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# MH Series High Current Chip Ferrite Beads

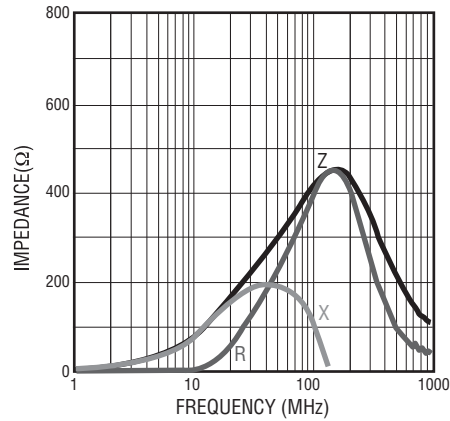
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## Electrical Specifications (continued)

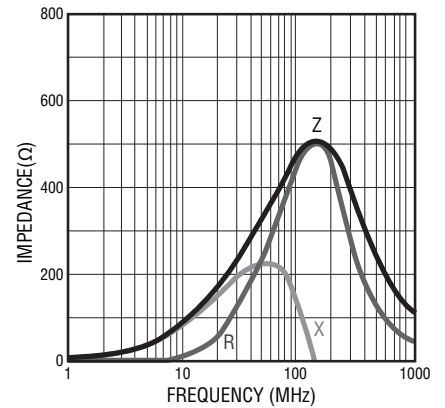
**MH 2029- 301Y**



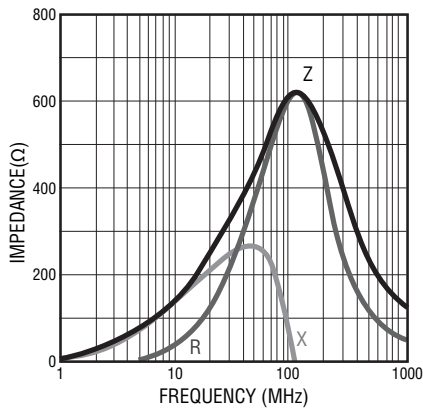
**MH 2029 -401Y**



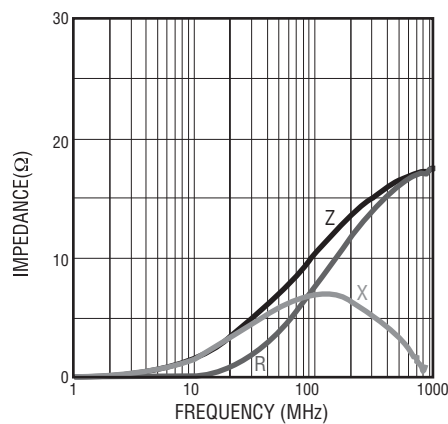
**MH 2029- 471Y**



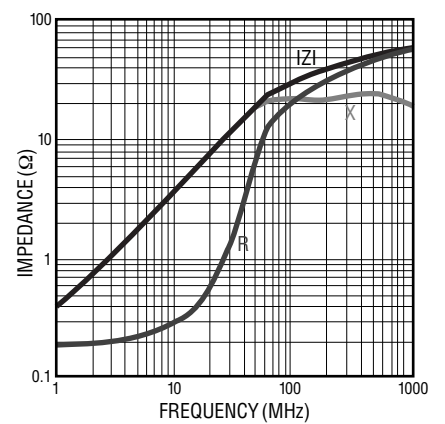
**MH 2029- 601Y**



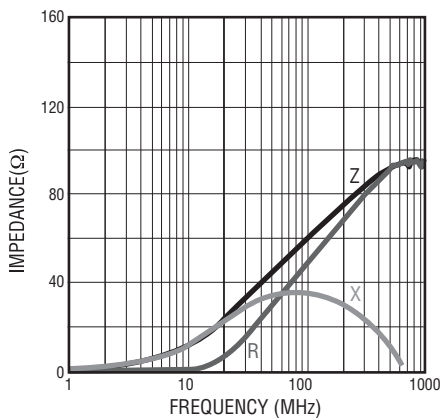
**MH 1608 -100Y**



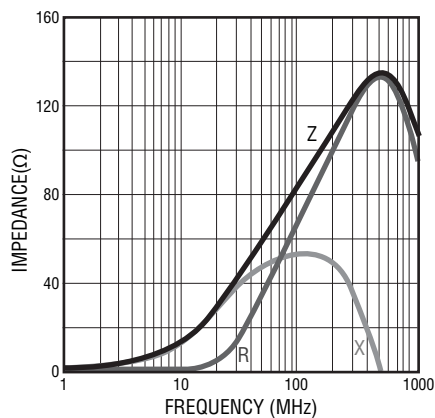
**MH 1608- 300Y**



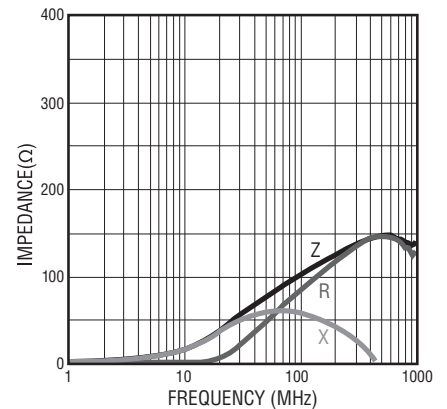
**MH 1608 -600Y**



**MH 1608- 800Y**



**MH 1608- 101Y**



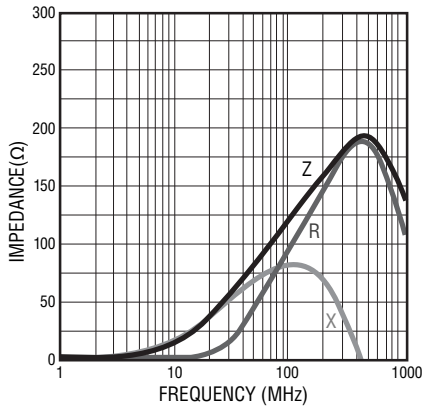
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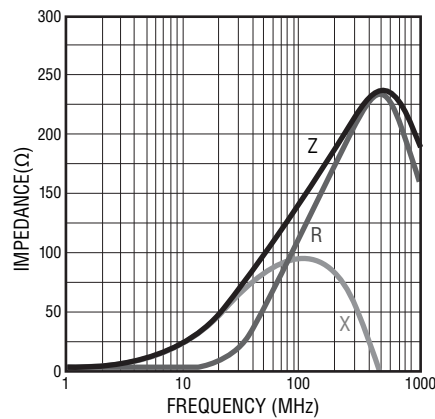
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## Electrical Specifications (continued)

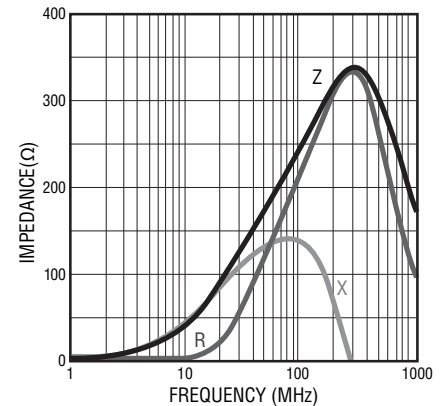
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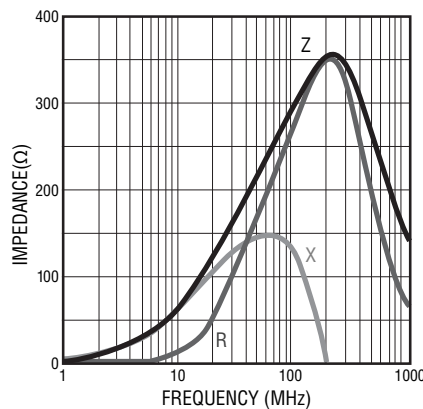
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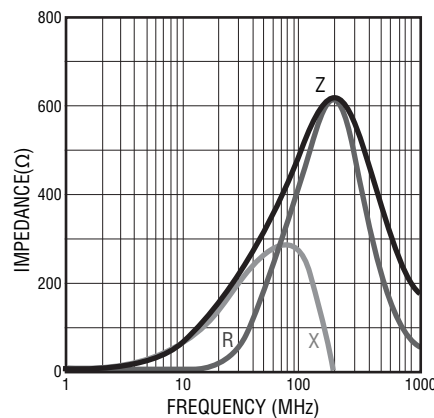
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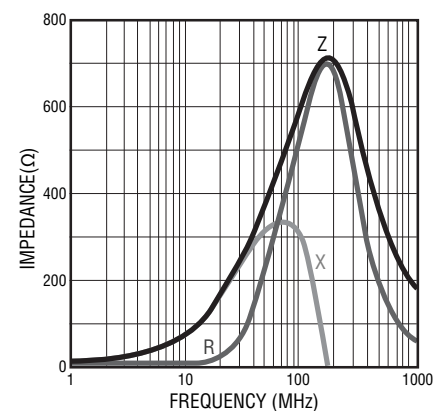
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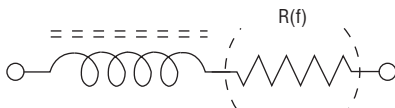
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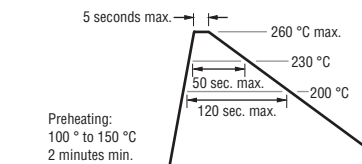
**MH 1608- 601Y**



## Equivalent Circuit



## Recommended Soldering

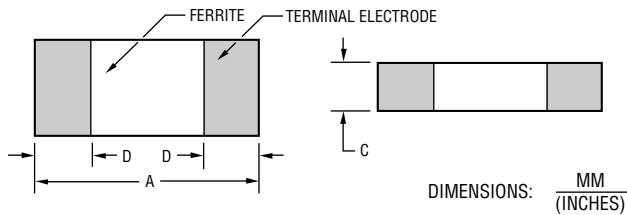


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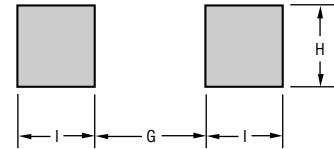
# MH Series High Current Chip Ferrite Beads

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## Product Dimensions

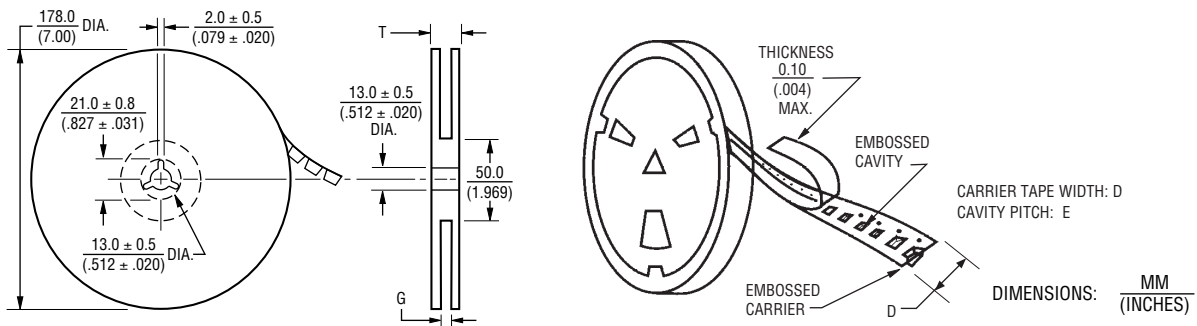


## Recommended Land Pattern



| Series | A                                     | B                                     | C                                     | D                                     | G                    | H                    | I                    |
|--------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|----------------------|----------------------|----------------------|
| 4532   | $\frac{4.5 \pm 0.2}{(.177 \pm .008)}$ | $\frac{3.2 \pm 0.2}{(.126 \pm .008)}$ | $\frac{1.5 \pm 0.2}{(.059 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{3.0}{(.118)}$ | $\frac{3.0}{(.118)}$ | $\frac{1.5}{(.059)}$ |
| 4516   | $\frac{4.5 \pm 0.2}{(.177 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{3.0}{(.118)}$ | $\frac{1.4}{(.055)}$ | $\frac{1.5}{(.059)}$ |
| 3261   | $\frac{3.2 \pm 0.2}{(.126 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{1.1 \pm 0.2}{(.043 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{2.0}{(.079)}$ | $\frac{1.4}{(.053)}$ | $\frac{1.1}{(.043)}$ |
| 2029   | $\frac{2.0 \pm 0.2}{(.079 \pm .008)}$ | $\frac{1.2 \pm 0.2}{(.047 \pm .008)}$ | $\frac{0.9 \pm 0.2}{(.035 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{1.0}{(.040)}$ | $\frac{1.0}{(.040)}$ | $\frac{1.0}{(.040)}$ |
| 1608   | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{0.8 \pm 0.2}{(.031 \pm .008)}$ | $\frac{0.8 \pm 0.2}{(.031 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{0.7}{(.028)}$ | $\frac{0.7}{(.028)}$ | $\frac{0.7}{(.028)}$ |

## Reel Dimensions



| Series | Pcs. per Reel | Gross Weight (g) | D                     | E                    | G                             | T                     |
|--------|---------------|------------------|-----------------------|----------------------|-------------------------------|-----------------------|
| 4532   | 1,000         | 170              | $\frac{12.0}{(.472)}$ | $\frac{8.0}{(.315)}$ | $\frac{14.0 + 0}{(.551 + 0)}$ | $\frac{16.5}{(.650)}$ |
| 4516   | 2,000         | 180              | $\frac{12.0}{(.472)}$ | $\frac{8.0}{(.315)}$ | $\frac{14.0 + 0}{(.551 + 0)}$ | $\frac{16.5}{(.650)}$ |
| 3261   | 3,000         | 150              | $\frac{8.0}{(.315)}$  | $\frac{4.0}{(.157)}$ | $\frac{10.0 + 0}{(.394 + 0)}$ | $\frac{12.5}{(.492)}$ |
| 2029   | 4,000         | 120              | $\frac{8.0}{(.315)}$  | $\frac{4.0}{(.157)}$ | $\frac{10.0 + 0}{(.394 + 0)}$ | $\frac{12.5}{(.492)}$ |
| 1608   | 4,000         | 90               | $\frac{8.0}{(.315)}$  | $\frac{4.0}{(.157)}$ | $\frac{10.0 + 0}{(.394 + 0)}$ | $\frac{12.5}{(.492)}$ |

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Specifications are subject to change without notice.  
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
Users should verify actual device performance in their specific applications.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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