



## Features

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

## Applications

- Power supply lines
- IC power lines
- Signal lines

# MT Series Low Impedance Chip Ferrite Beads

## Electrical Specifications

| Model Number | Impedance ( $\Omega$ ) at 100 MHz | RDC ( $\Omega$ ) Max. | IDC (mA) Max. |
|--------------|-----------------------------------|-----------------------|---------------|
| MT4532-250Y  | 25 $\pm$ 25 %                     | 0.4                   | 300           |
| MT4532-700Y  | 70 $\pm$ 25 %                     | 0.3                   | 300           |
| MT4532-121Y  | 120 $\pm$ 25 %                    | 0.3                   | 300           |
| MT4532-131Y  | 125 $\pm$ 25 %                    | 0.3                   | 300           |
| MT4516-800Y  | 80 $\pm$ 25 %                     | 0.3                   | 300           |
| MT4516-101Y  | 100 $\pm$ 25 %                    | 0.1                   | 500           |
| MT4516-151Y  | 150 $\pm$ 25 %                    | 0.3                   | 300           |
| MT3225-310Y  | 31 $\pm$ 25 %                     | 0.3                   | 400           |
| MT3225-520Y  | 52 $\pm$ 25 %                     | 0.3                   | 400           |
| MT3225-600Y  | 60 $\pm$ 25 %                     | 0.3                   | 400           |
| MT3266-600Y  | 60 $\pm$ 25 %                     | 0.3                   | 400           |
| MT3261-190Y  | 19 $\pm$ 25 %                     | 0.2                   | 500           |
| MT3261-260Y  | 26 $\pm$ 25 %                     | 0.2                   | 500           |
| MT3261-310Y  | 31 $\pm$ 25 %                     | 0.2                   | 500           |
| MT3261-420Y  | 42 $\pm$ 25 %                     | 0.2                   | 500           |
| MT3261-500Y  | 50 $\pm$ 25 %                     | 0.2                   | 500           |
| MT3261-700Y  | 70 $\pm$ 25 %                     | 0.2                   | 500           |
| MT3261-900Y  | 90 $\pm$ 25 %                     | 0.2                   | 500           |
| MT2029-070Y  | 7 $\pm$ 25 %                      | 0.2                   | 600           |
| MT2029-100Y  | 10 $\pm$ 25 %                     | 0.2                   | 600           |
| MT2029-110Y  | 11 $\pm$ 25 %                     | 0.2                   | 600           |
| MT2029-170Y  | 17 $\pm$ 25 %                     | 0.1                   | 600           |
| MT2029-260Y  | 26 $\pm$ 25 %                     | 0.1                   | 600           |
| MT2029-300Y  | 30 $\pm$ 25 %                     | 0.1                   | 600           |
| MT2029-400Y  | 40 $\pm$ 25 %                     | 0.1                   | 600           |
| MT1608-050Y  | 5 $\pm$ 25 %                      | 0.2                   | 600           |
| MT1608-090Y  | 9 $\pm$ 25 %                      | 0.2                   | 500           |
| MT1608-300Y  | 30 $\pm$ 25 %                     | 0.3                   | 400           |

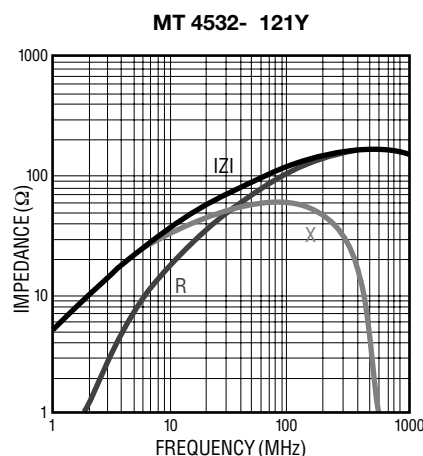
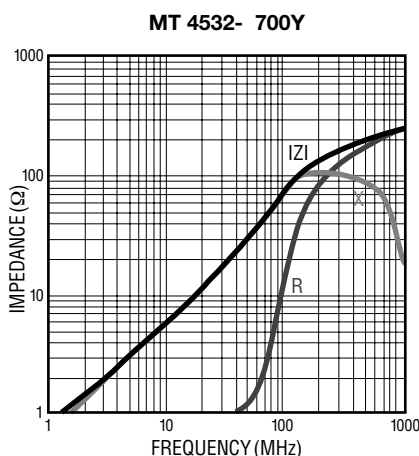
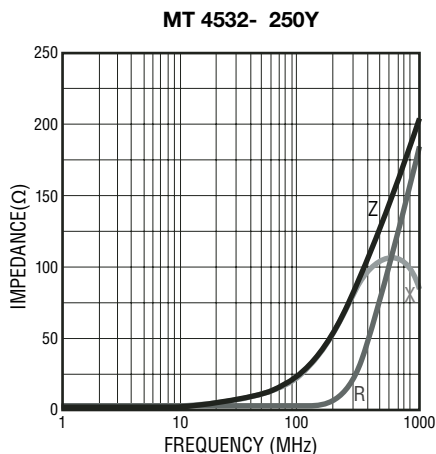
## General Specifications

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 seconds 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)  
 3225 Series .....1.0 F (Kg)  
 3266 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

## Electrical Specifications (continued)

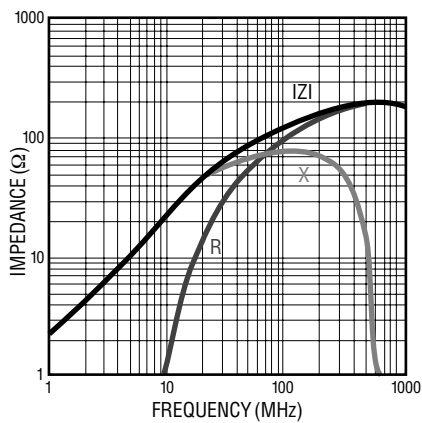


# MT Series Low Impedance Chip Ferrite Beads

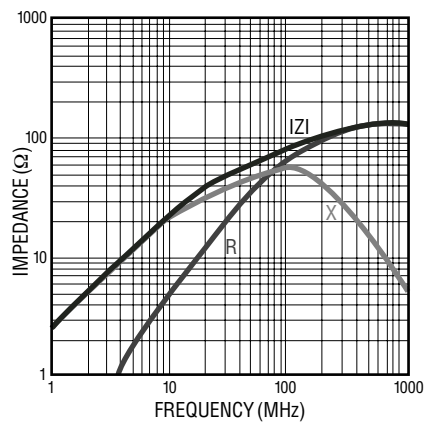
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## Electrical Specifications (continued)

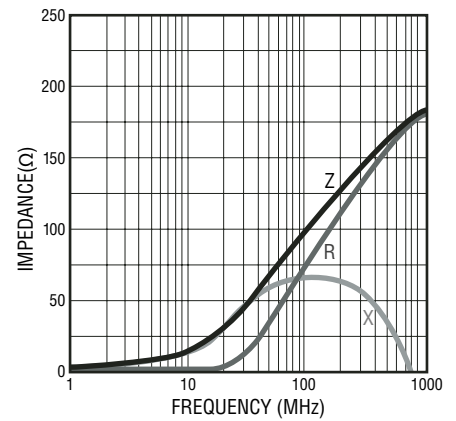
**MT 4532- 131Y**



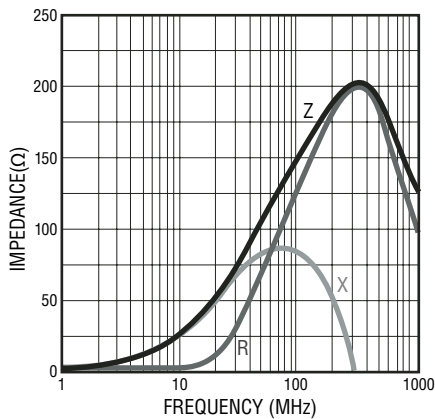
**MT 4516- 800Y**



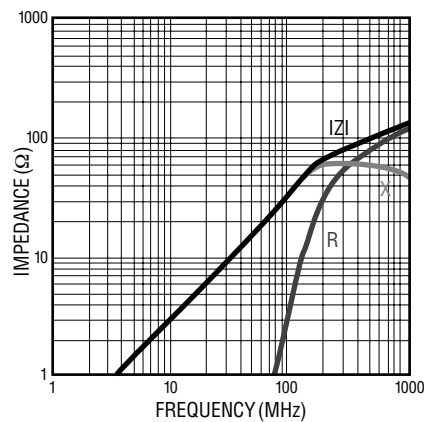
**MT 4516- 101Y**



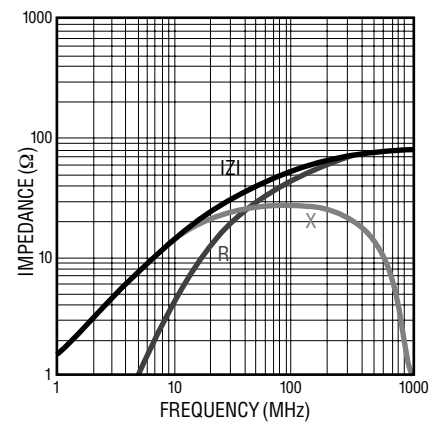
**MT 4516- 151Y**



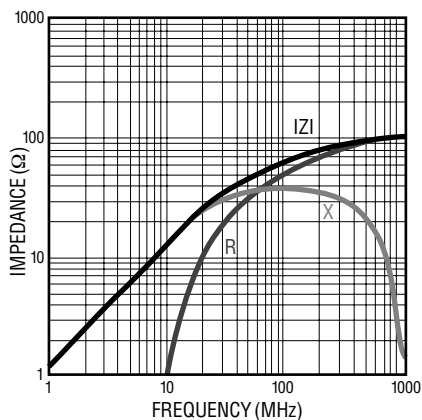
**MT 3225- 310Y**



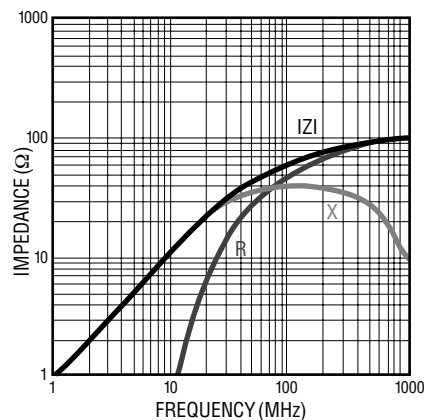
**MT 3225- 520Y**



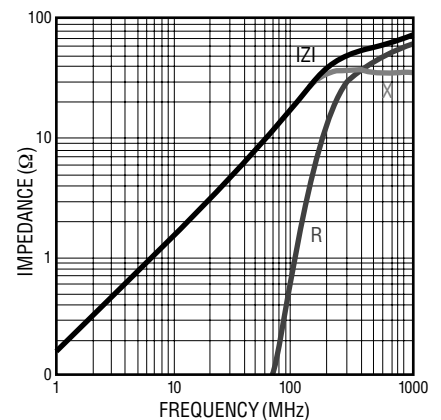
**MT 3225- 600Y**



**MT 3266- 600Y**



**MT 3261- 190Y**



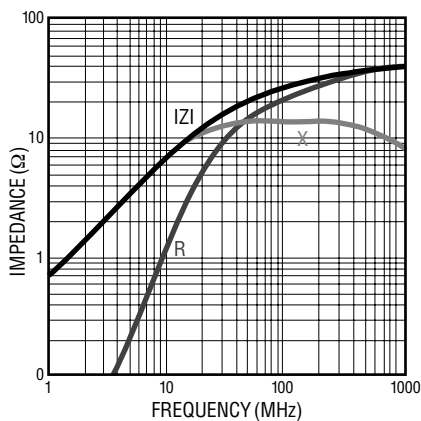
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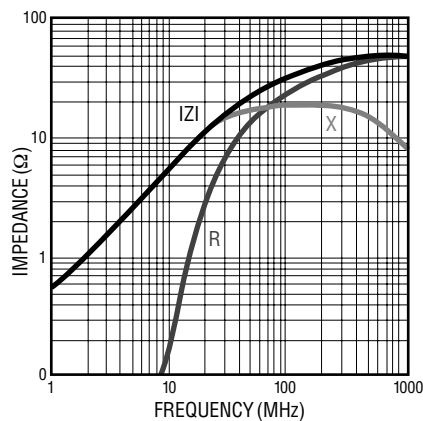
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## Electrical Specifications (continued)

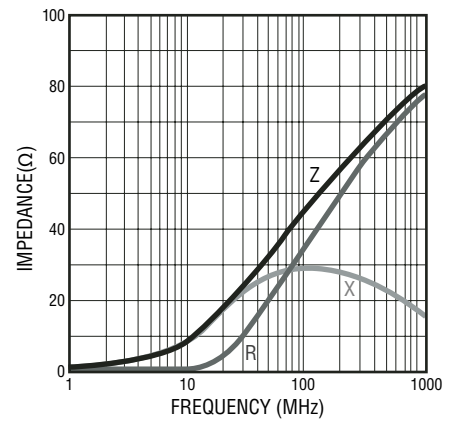
**MT 3261- 260Y**



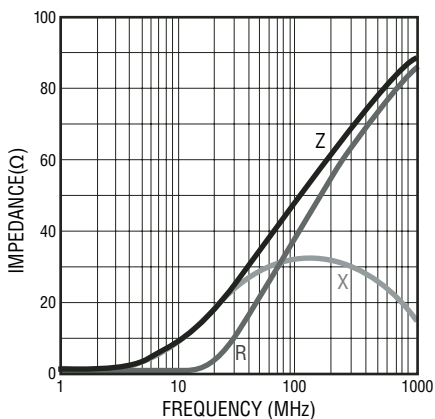
**MT 3261- 310Y**



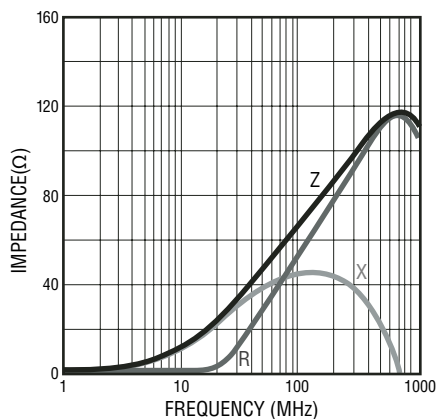
**MT 3261- 420Y**



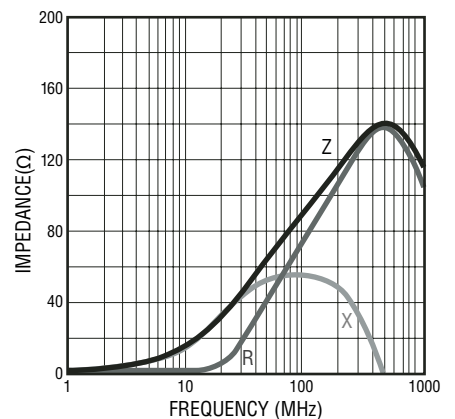
**MT 3261- 500Y**



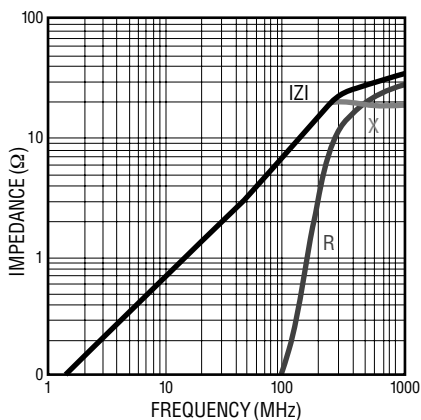
**MT 3261- 700Y**



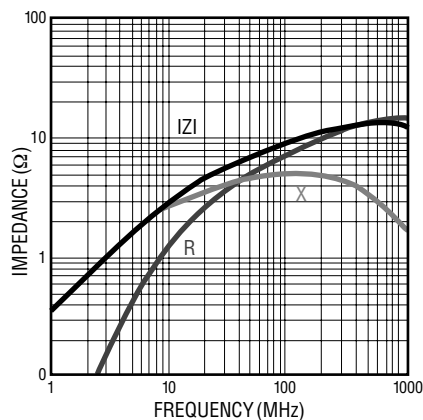
**MT 3261- 900Y**



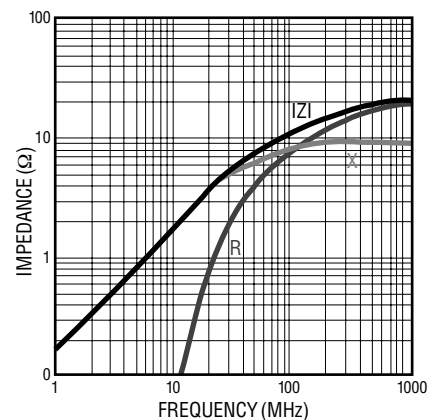
**MT 2029- 070Y**



**MT 2029- 100Y**



**MT 2029- 110Y**



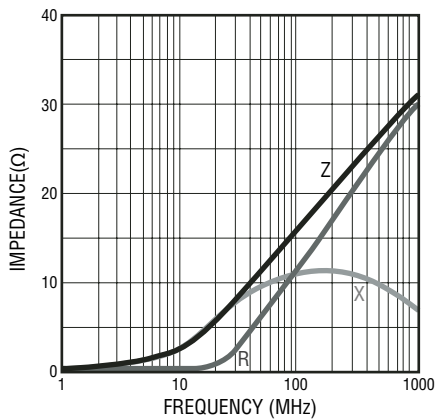
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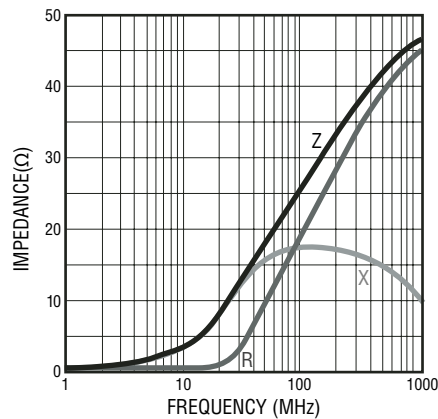
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## Electrical Specifications (continued)

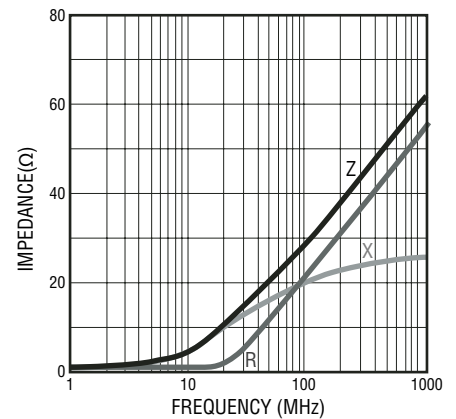
**MT 2029- 170Y**



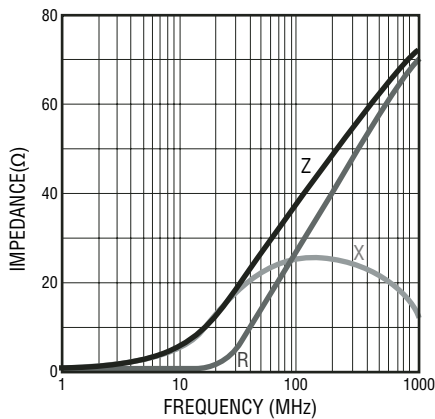
**MT 2029- 260Y**



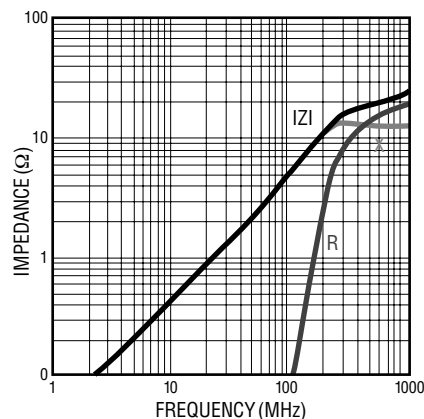
**MT 2029- 300Y**



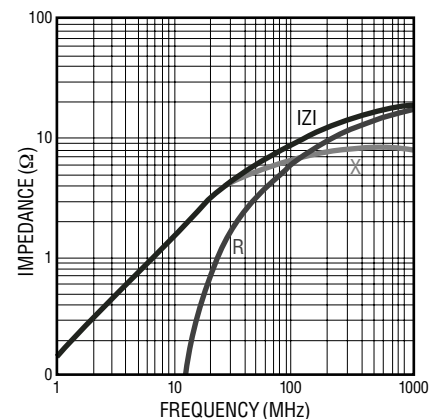
**MT 2029- 400Y**



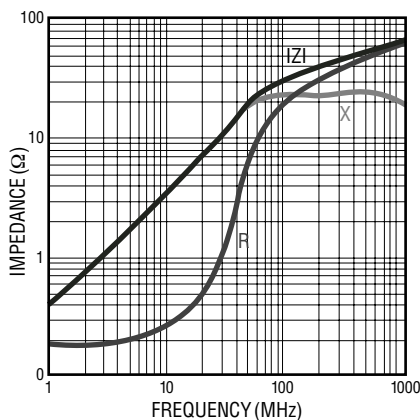
**MT 1608- 050Y**



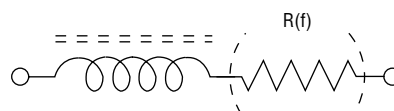
**MT 1608- 090Y**



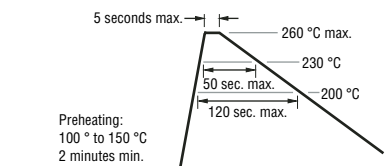
**MT 1608- 300Y**



## Equivalent Circuit



## Recommended Soldering

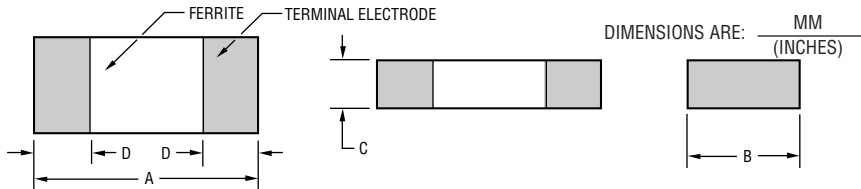


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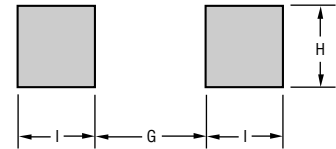
# MT Series Low Impedance Chip Ferrite Beads

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## Product Dimensions

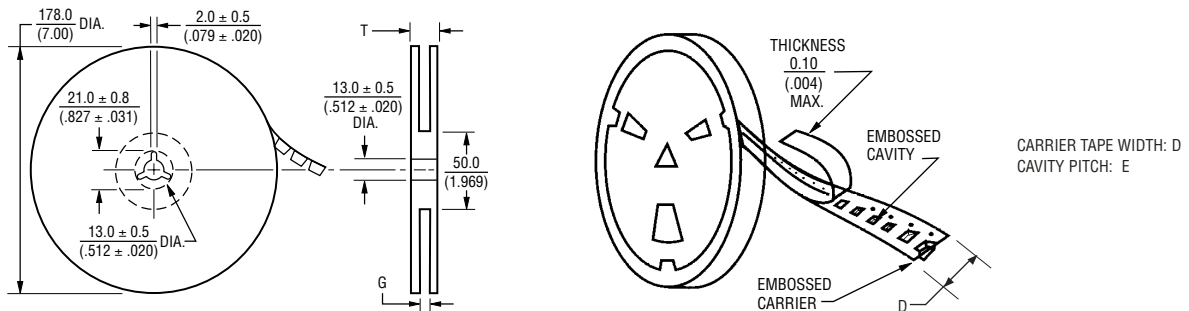


## Recommended Land Pattern



| 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   | $\frac{4.5 \pm 0.2}{(.177 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{3.0}{(.118)}$ | $\frac{1.4}{(.055)}$ | $\frac{1.5}{(.059)}$ |
| 3266   | $\frac{3.2 \pm 0.2}{(.126 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{2.2}{(.118)}$ | $\frac{1.4}{(.053)}$ | $\frac{1.1}{(.043)}$ |
| 3261   | $\frac{3.2 \pm 0.2}{(.126 \pm .008)}$ | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{1.1 \pm 0.2}{(.043 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{2.0}{(.079)}$ | $\frac{1.4}{(.053)}$ | $\frac{1.1}{(.043)}$ |
| 3225   | $\frac{3.2 \pm 0.2}{(.126 \pm .008)}$ | $\frac{2.5 \pm 0.2}{(.098 \pm .008)}$ | $\frac{1.3 \pm 0.2}{(.051 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{2.2}{(.118)}$ | $\frac{2.3}{(.091)}$ | $\frac{1.1}{(.043)}$ |
| 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   | $\frac{1.6 \pm 0.2}{(.063 \pm .008)}$ | $\frac{0.8 \pm 0.2}{(.031 \pm .008)}$ | $\frac{0.8 \pm 0.2}{(.031 \pm .008)}$ | $\frac{0.5 \pm 0.2}{(.020 \pm .008)}$ | $\frac{0.7}{(.028)}$ | $\frac{0.7}{(.128)}$ | $\frac{0.7}{(.128)}$ |

## 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              | $\frac{12.0}{(.472)}$ | $\frac{8.0}{(.315)}$ | $\frac{14.0 + 0}{(.551 + 0)}$ | $\frac{16.5}{(.650)}$ |
| 3266   | 2,000         | 140              | $\frac{8.0}{(.315)}$  | $\frac{4.0}{(.157)}$ | $\frac{10.0 + 0}{(.394 + 0)}$ | $\frac{12.5}{(.492)}$ |
| 3261   | 3,000         | 150              | $\frac{8.0}{(.315)}$  | $\frac{4.0}{(.157)}$ | $\frac{10.0 + 0}{(.394 + 0)}$ | $\frac{12.5}{(.492)}$ |
| 3225   | 2,500         | 160              | $\frac{8.0}{(.315)}$  | $\frac{4.0}{(.157)}$ | $\frac{10.0 + 0}{(.394 + 0)}$ | $\frac{12.5}{(.492)}$ |
| 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               | $\frac{8.0}{(.315)}$  | $\frac{4.0}{(.157)}$ | $\frac{10.0 + 0}{(.394 + 0)}$ | $\frac{12.5}{(.492)}$ |

REV. 04/06

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