
## 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

BOURNS®

# MT Series Low Impedance Chip Ferrite Beads

### Electrical Specifications

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

### General Specifications

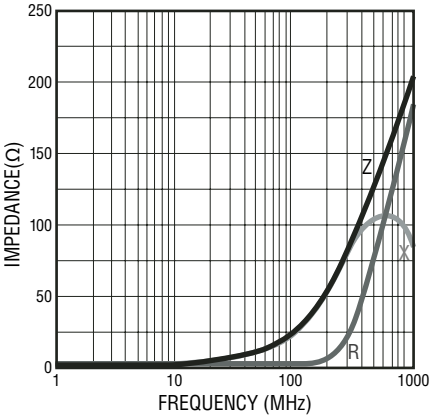
Operating Temperature
.....-55 °C to +125 °C
Storage Temperature ..-55 °C to +125 °C
Storage Condition
.....+40 °C max. at 70 % RH
Reflow Soldering
.....230 °C, 50 seconds max.
Resistance to Soldering Heat
.....260 °C, 5 seconds
Rated Current .....Based on max. temperature rise of +40 °C
Terminal Strength
(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

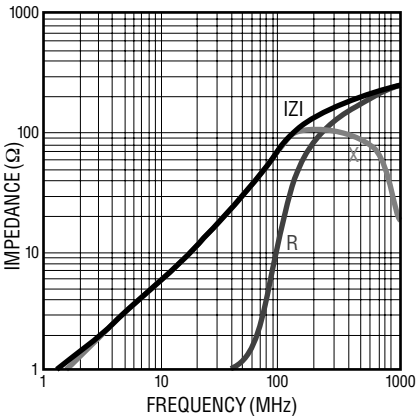
Core Material .....Ferrite
Internal Conductor .....Ag or Ag/Pd
Terminal .....Ag/Ni/Sn

### Electrical Specifications (continued)

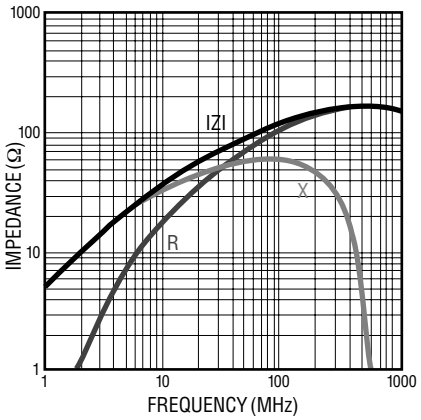
**MT 4532- 250Y**




**MT 4532- 700Y**



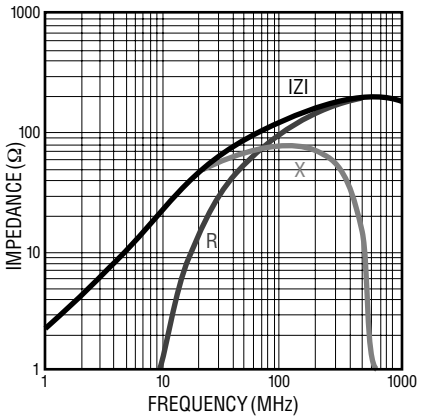

**MT 4532- 121Y**



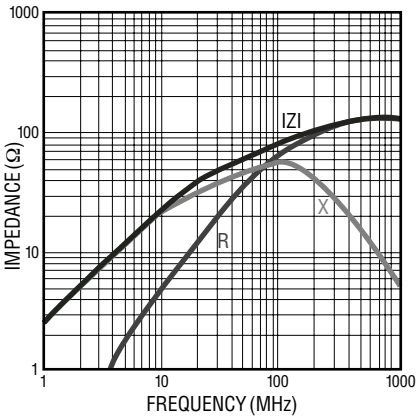

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex
Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

## Electrical Specifications (continued)

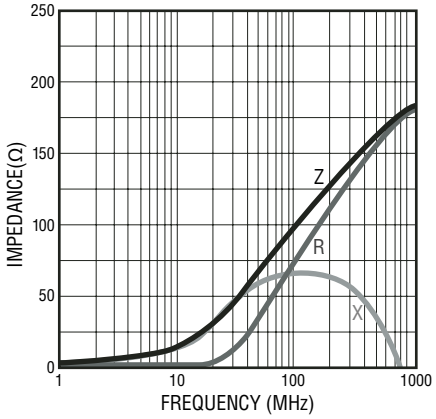
**MT 4532- 131Y**



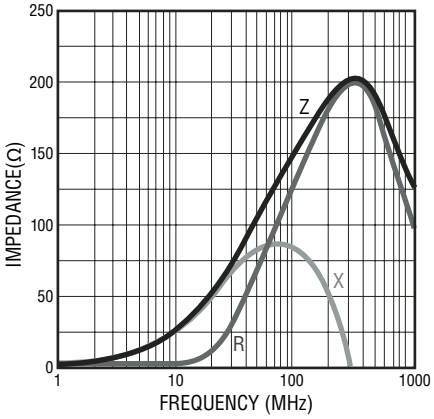

**MT 4516- 800Y**



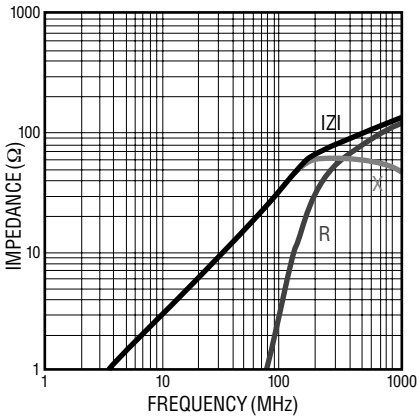

**MT 4516- 101Y**



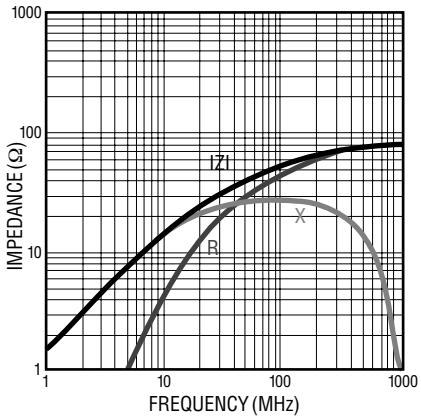

**MT 4516- 151Y**



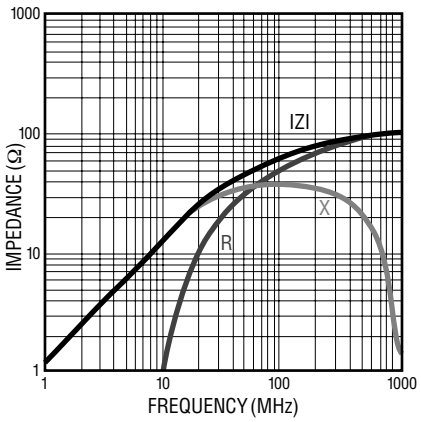

**MT 3225- 310Y**



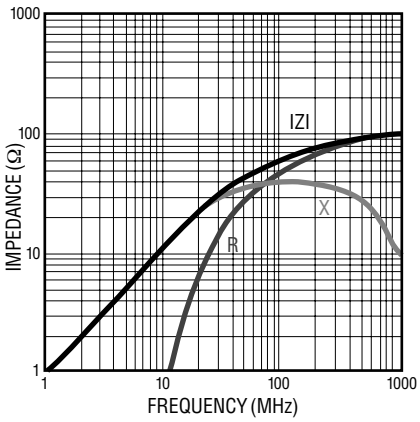

**MT 3225- 520Y**



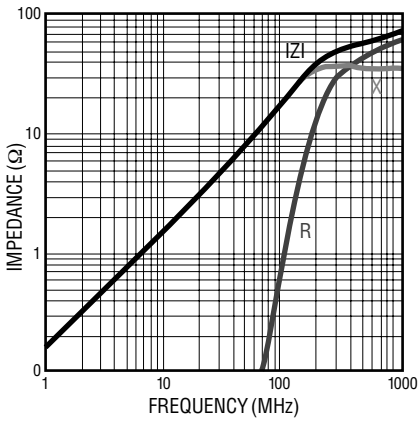

**MT 3225- 600Y**




**MT 3266- 600Y**



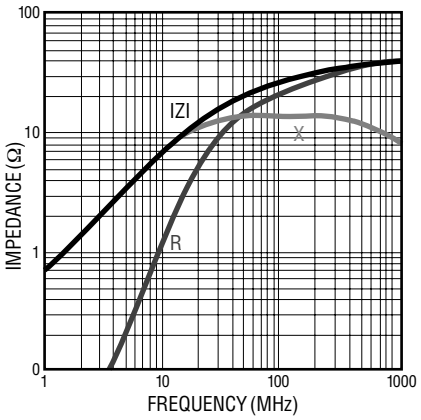

**MT 3261- 190Y**



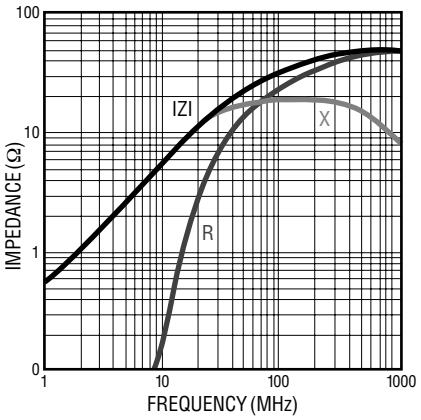

Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

## Electrical Specifications (continued)

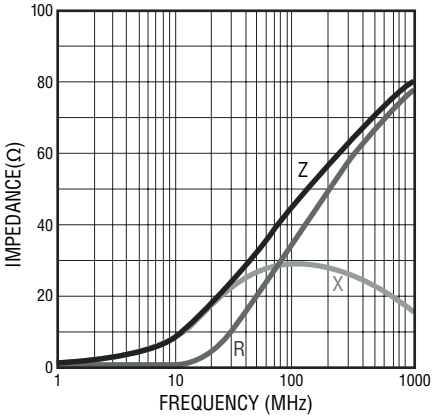
**MT 3261- 260Y**



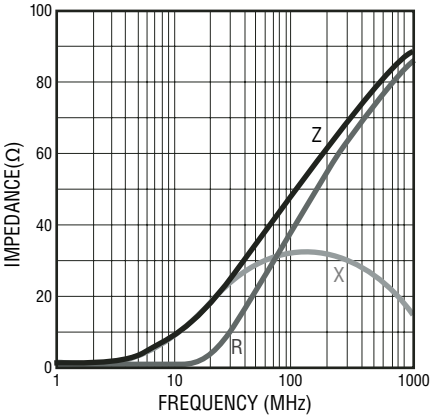

**MT 3261- 310Y**



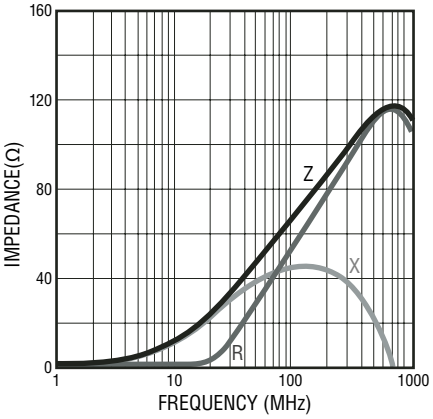

**MT 3261- 420Y**



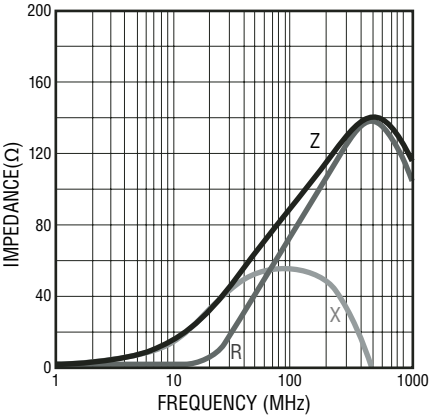

**MT 3261- 500Y**



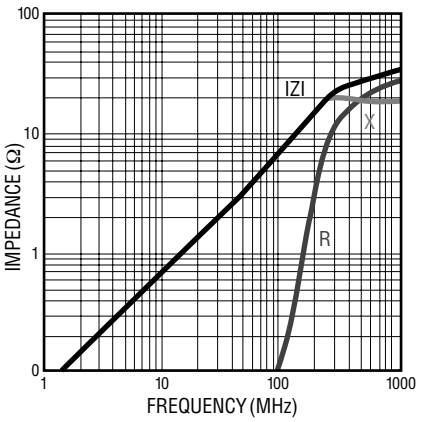

**MT 3261- 700Y**



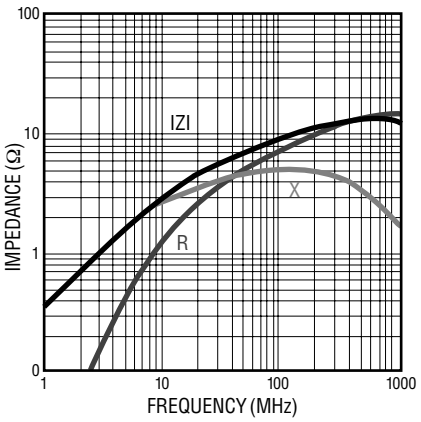

**MT 3261- 900Y**



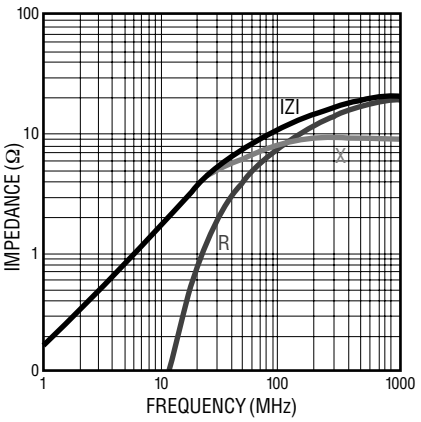

**MT 2029- 070Y**




**MT 2029- 100Y**

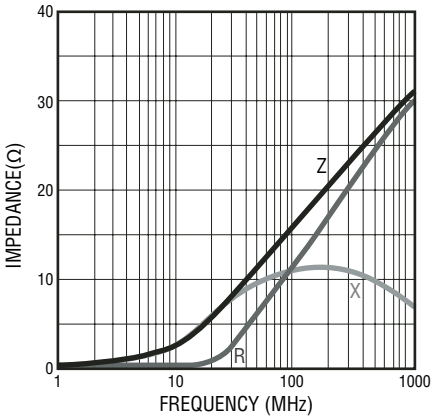



**MT 2029- 110Y**

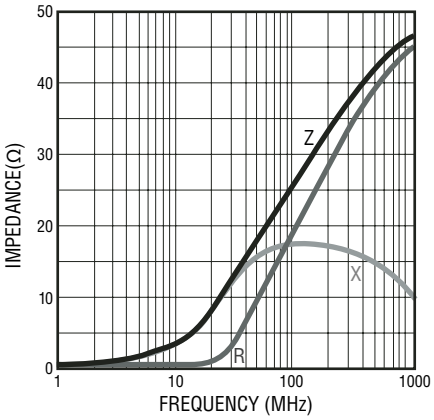


## Electrical Specifications (continued)

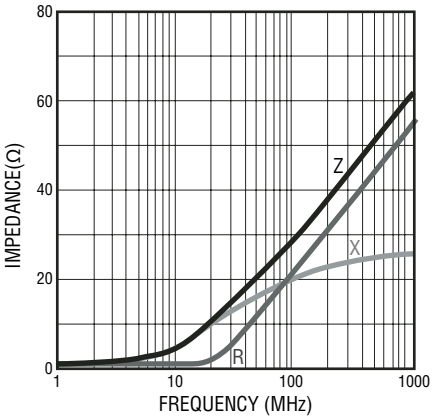
**MT 2029- 170Y**



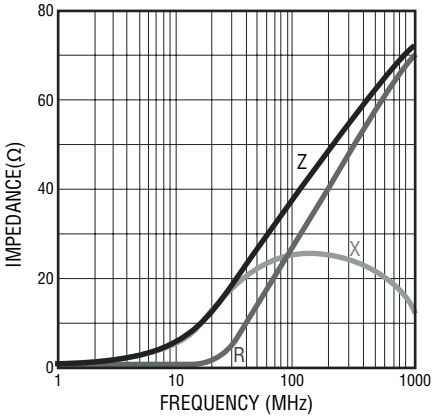

**MT 2029- 260Y**



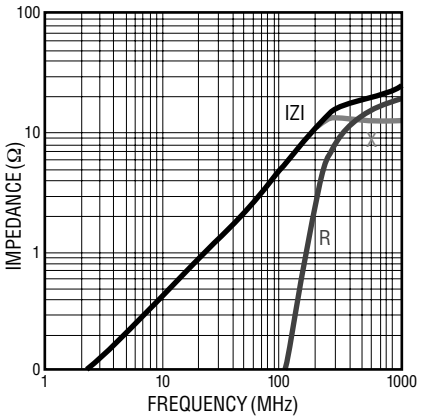

**MT 2029- 300Y**



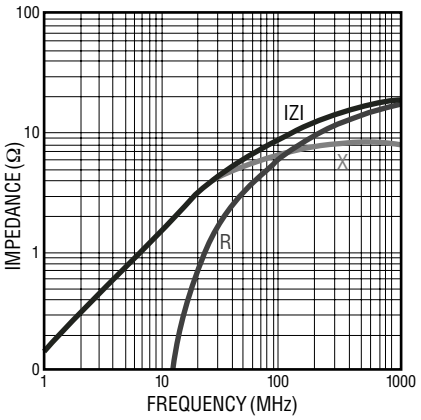

**MT 2029- 400Y**



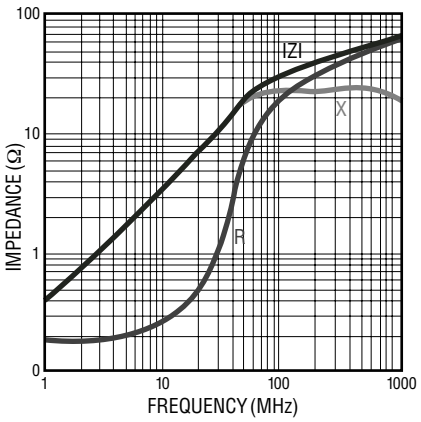

**MT 1608- 050Y**



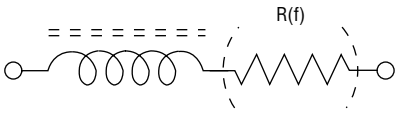

**MT 1608- 090Y**



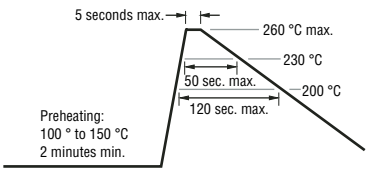

**MT 1608- 300Y**




### Equivalent Circuit




### Recommended Soldering

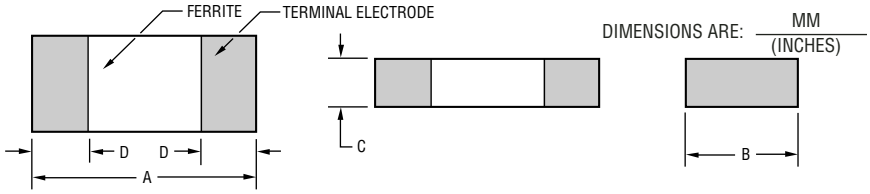



Specifications are subject to change without notice.
Customers should verify actual device performance in their specific applications.

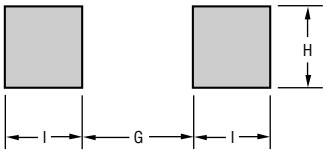
# MT Series Low Impedance Chip Ferrite Beads

BOURNS®

## Product Dimensions

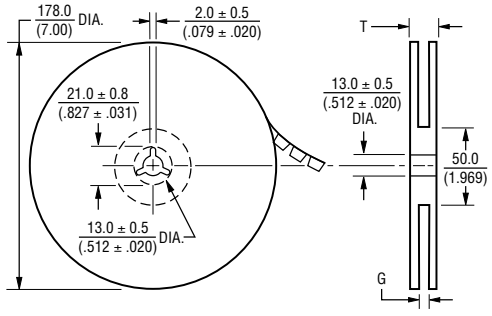


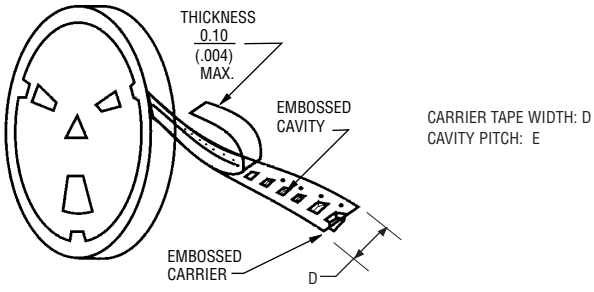

## Recommended Land Pattern




| Series | A | B | C | D | G | H | I |
|---|---|---|---|---|---|---|---|
| 4532 | 4.5 ± 0.2 (.177 ± .008) | 3.2 ± 0.2 (.126 ± .008) | 1.5 ± 0.2 (.059 ± .008) | 0.5 ± 0.2 (.020 ± .008) | 3.0 (.118) | 3.0 (.118) | 1.5 (.059) |
| 4516 | 4.5 ± 0.2 (.177 ± .008) | 1.6 ± 0.2 (.063 ± .008) | 1.6 ± 0.2 (.063 ± .008) | 0.5 ± 0.2 (.020 ± .008) | 3.0 (.118) | 1.4 (.055) | 1.5 (.059) |
| 3266 | 3.2 ± 0.2 (.126 ± .008) | 1.6 ± 0.2 (.063 ± .008) | 1.6 ± 0.2 (.063 ± .008) | 0.5 ± 0.2 (.020 ± .008) | 2.2 (.118) | 1.4 (.053) | 1.1 (.043) |
| 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) | 2.0 (.079) | 1.4 (.053) | 1.1 (.043) |
| 3225 | 3.2 ± 0.2 (.126 ± .008) | 2.5 ± 0.2 (.098 ± .008) | 1.3 ± 0.2 (.051 ± .008) | 0.5 ± 0.2 (.020 ± .008) | 2.2 (.118) | 2.3 (.091) | 1.1 (.043) |
| 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 ± 0.2 (.063 ± .008) | 0.8 ± 0.2 (.031 ± .008) | 0.8 ± 0.2 (.031 ± .008) | 0.5 ± 0.2 (.020 ± .008) | 0.7 (.028) | 0.7 (.128) | 0.7 (.128) |

## Reel Dimensions




| Series | Pcs. per Reel | Gross Weight (g) | D | E | G | T |
|---|---|---|---|---|---|---|
| 4532 | 1,000 | 170 | 12.0 (.472) | 8.0 (.315) | 14.0 + 0 (.551 + 0) | 16.5 (.650) |
| 4516 | 2,000 | 180 | 12.0 (.472) | 8.0 (.315) | 14.0 + 0 (.551 + 0) | 16.5 (.650) |
| 3266 | 2,000 | 140 | 8.0 (.315) | 4.0 (.157) | 10.0 + 0 (.394 + 0) | 12.5 (.492) |
| 3261 | 3,000 | 150 | 8.0 (.315) | 4.0 (.157) | 10.0 + 0 (.394 + 0) | 12.5 (.492) |
| 3225 | 2,500 | 160 | 8.0 (.315) | 4.0 (.157) | 10.0 + 0 (.394 + 0) | 12.5 (.492) |
| 2029 | 4,000 | 120 | 8.0 (.315) | 4.0 (.157) | 10.0 + 0 (.394 + 0) | 12.5 (.492) |
| 1608 | 4,000 | 90 | 8.0 (.315) | 4.0 (.157) | 10.0 + 0 (.394 + 0) | 12.5 (.492) |