# Chip Beads

Fair-Rite offers a broad selection of chip beads used to suppress EMI in a wide variety of devices such as computers, cellular phones, digital communication equipment, televisions, pagers, and VCRs.

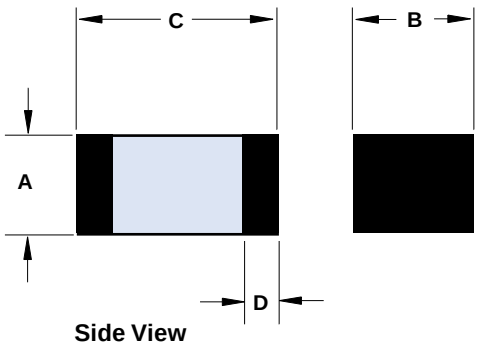
Low current, medium current, and high current chip beads are available. Fair-Rite's chip beads are controlled 100% for impedance and DCR. They are suitable for both wave and reflow solder processes.

Standard and high signal speed parts are available. Standard speed signal chip beads are designed for general noise suppression over a wide frequency range. The high speed signal chip beads offer low impedance at frequencies below 50 MHz and then the impedance increases rapidly to its peak at >100 MHz.

- *The 0603 and 0805 beads are supplied 4000 pieces per 7" reel or 10000 pieces per 13" reel. The 1206 beads are supplied 3000 pieces per 7" reel or 10000 pieces per 13" reel. The 1806 beads are supplied 2000 pieces per 7" reel or 10000 pieces per 13" reel. The 1812 beads are supplied 1000 pieces per 7" reel or 5000 pieces per 13" reel.*
- *The tape width for the 0603, 0805, and 1206 beads is **8mm** with a component pitch of **4mm**. The tape width for the 1806 and 1812 beads is **12mm** with a component pitch of **8mm**.*
- *The contacts are tin/lead plated. Standard reflow soldering profile is shown below.*
- *Recommended storage and operating temperature is –55°C to +125°C.*
- *For impedance vs. frequency curves and DC bias curves for these parts, please see Figures 1-61.*
- *For any chip bead requirement not listed, please contact our customer service group for availability and pricing.*
- *The Chip Bead Kit (part number 0199000018)is available for prototype evaluation. See page 92.*

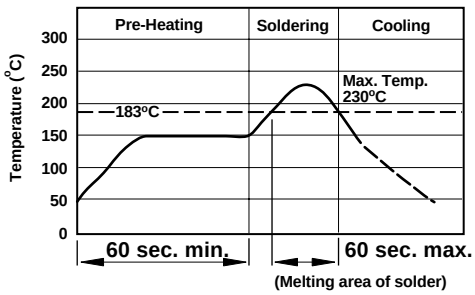
## Part Number System: Example 2512063017Y1

| 25 | 1206 | 301 | 7 | Y | 1 |
|---|---|---|---|---|---|
| **Chip Bead Code** | **Package Size Code** | **Impedance Code** | **Packaging Code** | **Material Code** | **Current Code** |
| | | | 6= Bulk Packed | Y = Standard Signal Speed | 0 < 1.0A |
| | | | 7= Taped and Reeled 7" Reel | Z= High Signal Speed | 1 ≥ 1.0A < 2.0A |
| | | | 8= Taped and Reeled 13" Reel | | 3 ≥ 3.0A < 4.0A |
| | | | | | 6 ≥ 6.0A < 7.0A |



Side View

**Standard Soldering Profile**

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# Chip Beads

## Low Current Chip Beads (<1 Amp)

**Dimensions** (**Bold numbers are in millimeters**, light numbers are in inches.)

| Pkg. Size | Dimensions A | B | C | D | Wt(g) | Signal Speed | Part Number | Z(Ω) ±25% @ 100 MHz | Max. DCR ohm | Max. Current mA | Z, $R_s$, $X_L$ vs. Frequency Curve | DC Bias Curve |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0603 | 0.8±0.3 .031 | 0.8±0.3 .031 | 1.6±0.15 .063 | 0.4±0.2 .016 | 0.006 | Standard | **2506033007Y0** | 30 | 0.1 | 200 | Figure 1A | Figure 1B |
| | | | | | | | **2506036007Y0** | 60 | 0.2 | 200 | Figure 2A | Figure 2B |
| | | | | | | | **2506038007Y0** | 80 | 0.2 | 150 | Figure 3A | Figure 3B |
| | | | | | | | **2506039007Y0** | 90 | 0.2 | 150 | Figure 4A | Figure 4B |
| | | | | | | | **2506031017Y0** | 100 | 0.2 | 150 | Figure 5A | Figure 5B |
| | | | | | | | **2506031217Y0** | 120 | 0.2 | 150 | Figure 6A | Figure 6B |
| | | | | | | | **2506031517Y0** | 150 | 0.3 | 150 | Figure 7A | Figure 7B |
| | | | | | | | **2506033017Y0** | 300 | 0.6 | 100 | Figure 8A | Figure 8B |
| | | | | | | | **2506036017Y0** | 600 | 0.8 | 100 | Figure 9A | Figure 9B |
| | | | | | | | **2506031027Y0** | 1000 | 1 | 100 | Figure 10A | Figure 10B |
| | | | | | | High | **250603607Z0** | 60 | 0.5 | 200 | Figure 11A | Figure 11B |
| | | | | | | | **250603217Z0** | 120 | 0.5 | 150 | Figure 12A | Figure 12B |
| | | | | | | | **250603317Z0** | 300 | 0.85 | 100 | Figure 13A | Figure 13B |
| 0805 | 0.9±0.2 .035 | 1.25±0.2 .049 | 2.0±0.2 .079 | 0.45±0.35 .018 | 0.01 | Standard | **2508051107Y0** | 11 | 0.1 | 300 | Figure 14A | Figure 14B |
| | | | | | | | **2508053007Y0** | 30 | 0.2 | 300 | Figure 15A | Figure 15B |
| | | | | | | | **2508055007Y0** | 50 | 0.2 | 300 | Figure 16A | Figure 16B |
| | | | | | | | **2508056007Y0** | 60 | 0.2 | 300 | Figure 17A | Figure 17B |
| | | | | | | | **2508059007Y0** | 90 | 0.3 | 300 | Figure 18A | Figure 18B |
| | | | | | | | **2508051017Y0** | 100 | 0.3 | 300 | Figure 19A | Figure 19B |
| | | | | | | | **2508051217Y0** | 120 | 0.3 | 300 | Figure 20A | Figure 20B |
| | | | | | | | **2508051817Y0** | 180 | 0.3 | 300 | Figure 21A | Figure 21B |
| | | | | | | | **2508053017Y0** | 300 | 0.4 | 300 | Figure 22A | Figure 22B |
| | | | | | | | **2508056017Y0** | 600 | 0.6 | 200 | Figure 23A | Figure 23B |
| | | | | | | | **2508051027Y0** | 1000 | 0.8 | 100 | Figure 24A | Figure 24B |
| | | | | | | | **2508051527Y0** | 1500 | 1 | 100 | Figure 25A | Figure 25B |
| | | | | | | High | **250805607Z0** | 60 | 0.3 | 300 | Figure 26A | Figure 26B |
| | | | | | | | **250805217Z0** | 120 | 0.3 | 300 | Figure 27A | Figure 27B |
| | | | | | | | **250805317Z0** | 300 | 0.55 | 100 | Figure 28A | Figure 28B |
| 1206 | 1.1±0.2 .043 | 1.6±0.2 .063 | 3.2±0.2 .126 | 0.55±0.45 .022 | 0.03 | Standard | **2512063007Y0** | 30 | 0.1 | 500 | Figure 29A | Figure 29B |
| | | | | | | | **2512065007Y0** | 50 | 0.2 | 400 | Figure 30A | Figure 30B |
| | | | | | | | **2512066007Y0** | 60 | 0.2 | 400 | Figure 31A | Figure 31B |
| | | | | | | | **2512067007Y0** | 70 | 0.2 | 400 | Figure 32A | Figure 32B |
| | | | | | | | **2512068007Y0** | 80 | 0.2 | 400 | Figure 33A | Figure 33B |
| | | | | | | | **2512069007Y0** | 90 | 0.2 | 300 | Figure 34A | Figure 34B |
| | | | | | | | **2512061017Y0** | 100 | 0.2 | 300 | Figure 35A | Figure 35B |
| | | | | | | | **2512061217Y0** | 120 | 0.2 | 300 | Figure 36A | Figure 36B |
| | | | | | | | **2512063017Y0** | 300 | 0.3 | 200 | Figure 37A | Figure 37B |
| | | | | | | | **2512066017Y0** | 600 | 0.6 | 200 | Figure 38A | Figure 38B |
| | | | | | | | **2512061027Y0** | 1000 | 0.8 | 100 | Figure 39A | Figure 39B |
| | | | | | | | **2512061527Y0** | 1500@50 MHz | 1 | 100 | Figure 40A | Figure 40B |
| 1806 | 1.6±0.2 .063 | 1.6±0.2 .063 | 4.5±0.2 .177 | 0.55±0.45 .022 | 0.06 | Standard | **2518066007Y0** | 60 | 0.2 | 500 | Figure 41A | Figure 41B |
| | | | | | | | **2518067007Y0** | 70 | 0.2 | 500 | Figure 42A | Figure 42B |
| | | | | | | | **2518068007Y0** | 80 | 0.2 | 500 | Figure 43A | Figure 43B |
| | | | | | | | **2518061017Y0** | 100 | 0.3 | 400 | Figure 44A | Figure 44B |
| | | | | | | | **2518061517Y0** | 150 | 0.3 | 400 | Figure 45A | Figure 45B |
| | | | | | | | **2518063017Y0** | 300 | 0.3 | 400 | Figure 46A | Figure 46B |

** Bold part numbers designate preferred parts.*

# Chip Beads

## Medium Current Chip Beads (1-3 Amp)

**Dimensions** (**Bold numbers are in millimeters**, light numbers are in inches.)

| Pkg. Size | Dimensions A | B | C | D | Wt(g) | Signal Speed | Part Number* | Z(Ω) ±25% @ 100 MHz | Max. DCR ohm | Max. Current mA | Z, $R_s$, $X_L$ vs. Frequency Curve | DC Bias Curve |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0603** | **0.8±0.3** .031 | **0.8±0.3** .031 | **1.6±0.15** .063 | **0.4±0.2** .016 | **0.006** | Standard | **2506033007Y1** | 30 | 0.1 | 1000 | Figure 47A | Figure 47B |
| **0805** | **0.9±0.2** .035 | **1.25±0.2** .049 | **2.0±0.2** .079 | **0.55±0.45** .022 | **0.01** | Standard | **2508053007Y3** | 30 | 0.04 | 3000 | Figure 48A | Figure 48B |
| **1206** | **1.1±0.2** .043 | **1.6±0.2** .063 | **3.2±0.2** .126 | **0.55±0.45** .022 | **0.03** | Standard | **2512061907Y1** | 19 | 0.04 | 1500 | Figure 49A | Figure 49B |
| | | | | | | | **2512063007Y3** | 30 | 0.04 | 3000 | Figure 50A | Figure 50B |
| | | | | | | | **2512065007Y3** | 50 | 0.05 | 3000 | Figure 51A | Figure 51B |
| | | | | | | | **2512067007Y3** | 70 | 0.05 | 3000 | Figure 52A | Figure 52B |
| | | | | | | | **2512066017Y1** | 600 | 0.3 | 1000 | Figure 53A | Figure 53B |
| **1806** | **1.6±0.2** .063 | **1.6±0.2** .063 | **4.5±0.2** .177 | **0.55±0.45** .022 | **0.06** | Standard | **2518066007Y3** | 60 | 0.04 | 3000 | Figure 54A | Figure 54B |
| | | | | | | | **2518068007Y1** | 80 | 0.1 | 1500 | Figure 55A | Figure 55B |
| **1812** | **1.6±0.2** .063 | **3.2±0.2** .126 | **4.5±0.2** .177 | **0.55±0.45** .022 | **0.09** | Standard | **2518127007Y3** | 70 | 0.04 | 3000 | Figure 56A | Figure 56B |
| | | | | | | | **2518121217Y3** | 120 | 0.04 | 3000 | Figure 57A | Figure 57B |

## High Current Chip Beads (>3 Amp)

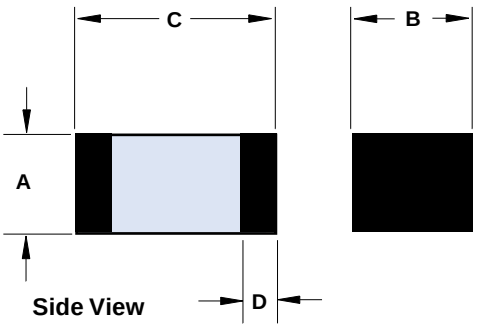
**Dimensions** (**Bold numbers are in millimeters** light numbers are in inches )

| Pkg. Size | Dimensions A | B | C | D | Wt(g) | Signal Speed | Part Number* | Z(Ω) ±25% @ 100 MHz | Max. DCR ohm | Max. Current mA | Z, $R_s$, $X_L$ vs. Frequency Curve | DC Bias Curve |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **1206** | **1.1±0.2** .043 | **1.6±0.2** .063 | **3.2±0.2** .126 | **0.6±0.2** .024 | **0.03** | Standard | **2512065007Y6** | 50 | 0.02 | 6000 | Figure 58A | Figure 58B |
| **1806** | **1.6±0.2** .063 | **1.6±0.2** .063 | **4.5±0.2** .177 | **0.6±0.2** .024 | **0.06** | Standard | **2518065007Y6** | 50 | 0.01 | 6000 | Figure 59A | Figure 59B |
| | | | | | | | **2518068007Y6** | 80 | 0.02 | 6000 | Figure 60A | Figure 60B |
| **1812** | **1.6±0.2** .063 | **3.2±0.2** .126 | **4.5±0.2** .177 | **0.55±0.45** .022 | **0.09** | Standard | **2518121217Y6** | 120 | 0.02 | 6000 | Figure 61A | Figure 61B |

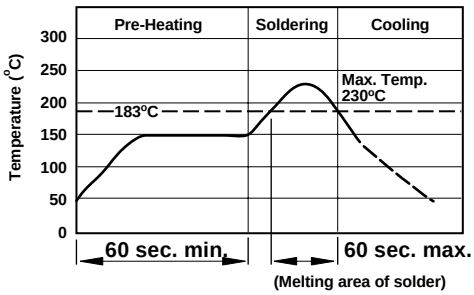
** Bold part numbers designate preferred parts.*

## Part Number System: Example 2512063017Y1

| 25 | 1206 | 301 | 7 | Y | 1 |
|---|---|---|---|---|---|
| **Chip Bead Code** | **Package Size Code** | **Impedance Code** | **Packaging Code** | **Material Code** | **Current Code** |
| | | | 6= Bulk Packed | Y = Standard Signal Speed | 0 < 1.0A |
| | | | 7= Taped and Reeled 7" Reel | Z= High Signal Speed | 1 ≥ 1.0A < 2.0A |
| | | | 8= Taped and Reeled 13" Reel | | 3 ≥ 3.0A < 4.0A |
| | | | | | 6 ≥ 6.0A < 7.0A |




**Standard Soldering Profile**

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# Chip Beads

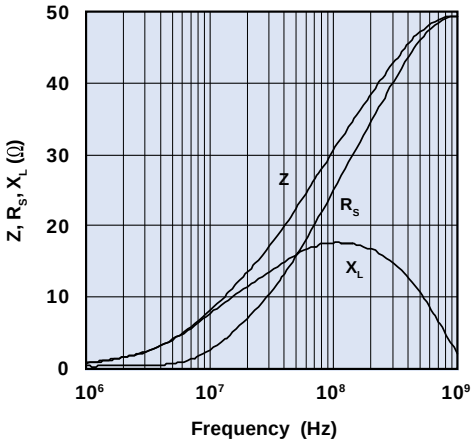


**Figure 1A** Impedance, reactance, and resistance vs. frequency for chip bead 2506033007Y0.

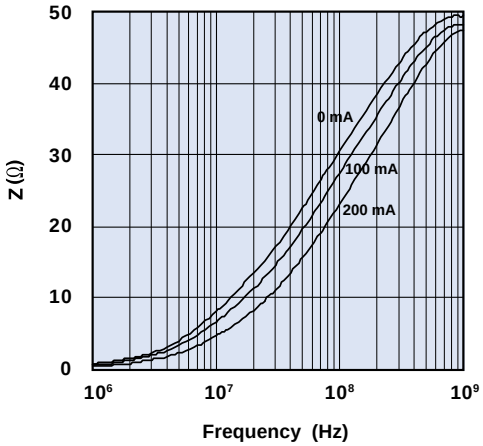


**Figure 1B** Impedance vs. frequency with dc bias as parameter for chip bead 2506033007Y0.

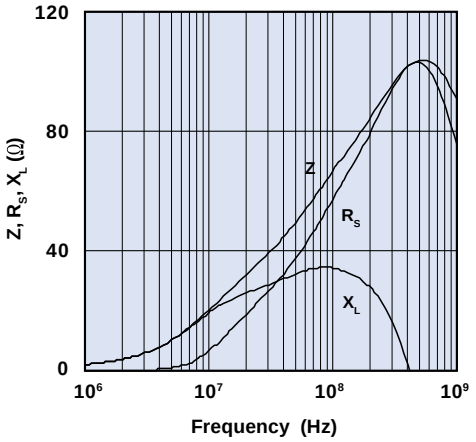


**Figure 2A** Impedance, reactance, and resistance vs. frequency for chip bead 2506036007Y0.

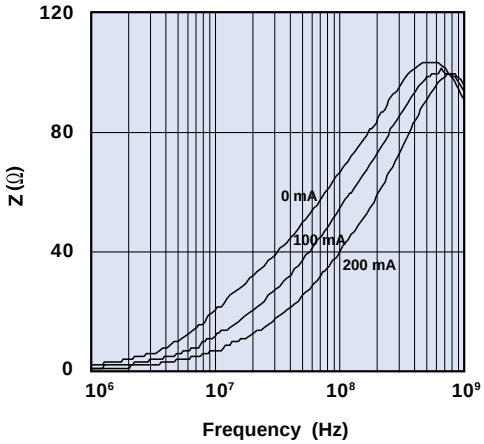


**Figure 2B** Impedance vs. frequency with dc bias as parameter for chip bead 2506036007Y0.

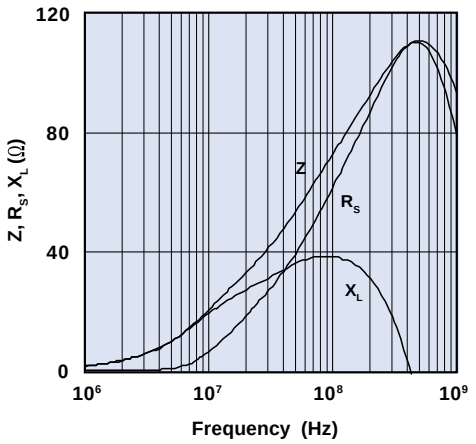


**Figure 3A** Impedance, reactance, and resistance vs. frequency for chip bead 2506038007Y0.

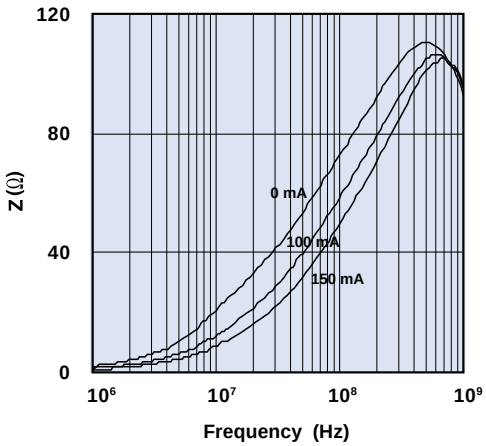


**Figure 3B** Impedance vs. frequency with dc bias as parameter for chip bead 2506038007Y0.

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# Chip Beads

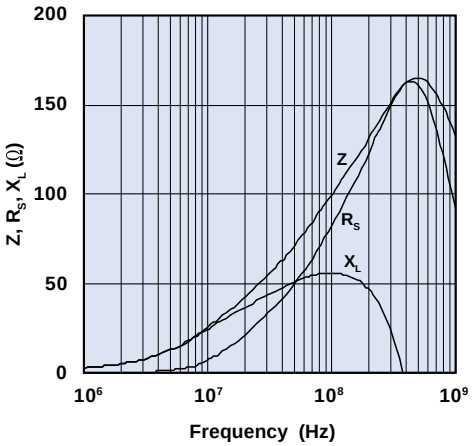


**Figure 4A** Impedance, reactance, and resistance vs. frequency for chip bead 2506039007Y0.

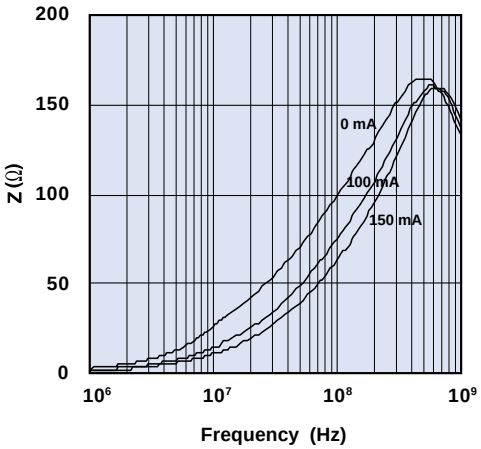


**Figure 4B** Impedance vs. frequency with dc bias as parameter for chip bead 2506039007Y0.

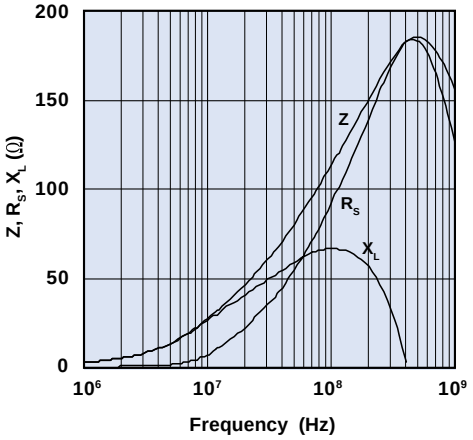


**Figure 5A** Impedance, reactance, and resistance vs. frequency for chip bead 2506031017Y0.

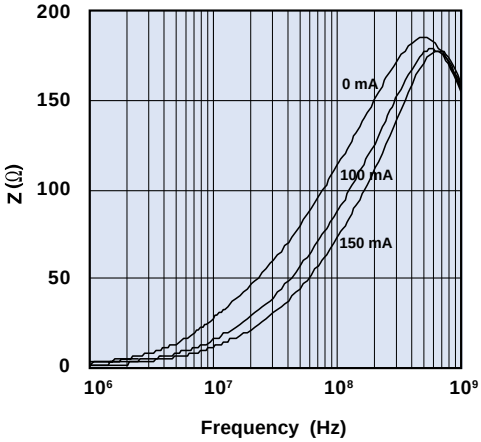


**Figure 5B** Impedance vs. frequency with dc bias as parameter for chip bead 2506031017Y0.

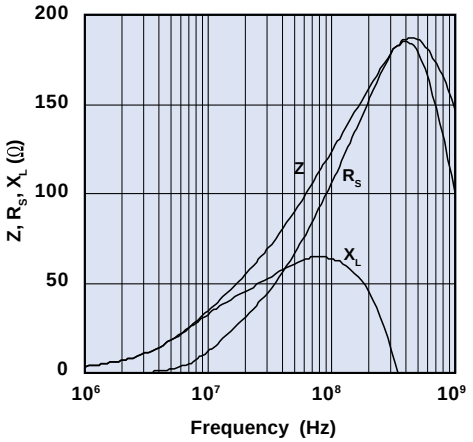


**Figure 6A** Impedance, reactance, and resistance vs. frequency for chip bead 2506031217Y0.

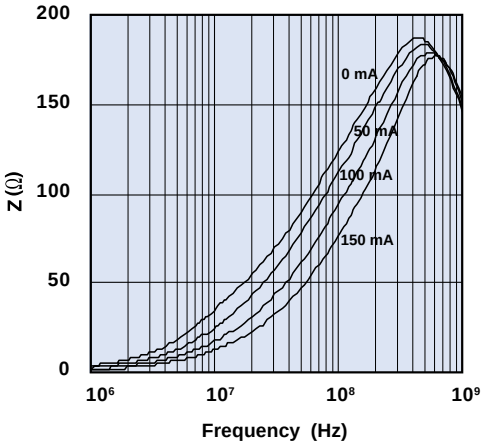


**Figure 6B** Impedance vs. frequency with dc bias as parameter for chip bead 2506031217Y0.

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# Chip Beads

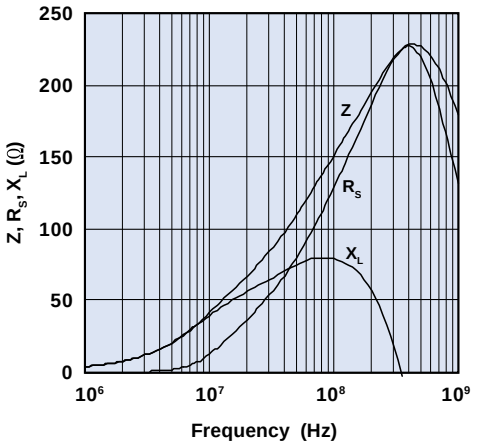


**Figure 7A** Impedance, reactance, and resistance vs. frequency for chip bead 2506031517Y0.

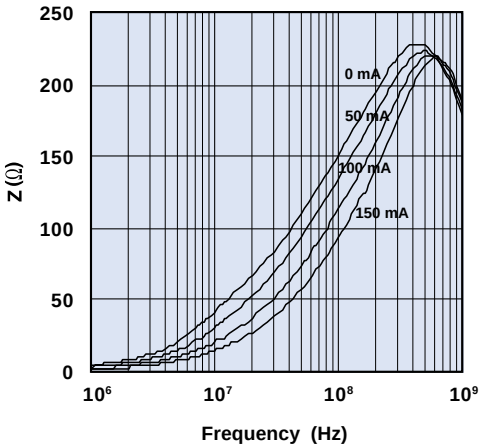


**Figure 7B** Impedance vs. frequency with dc bias as parameter for chip bead 2506031517Y0.

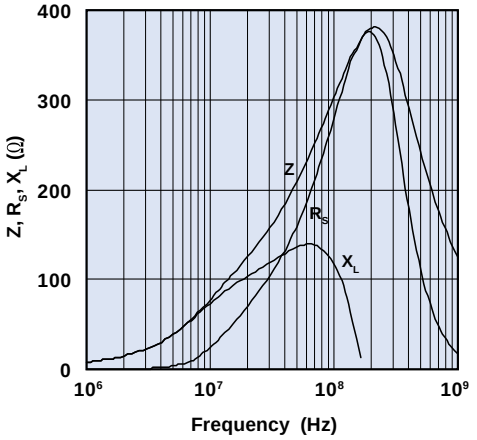


**Figure 8A** Impedance, reactance, and resistance vs. frequency for chip bead 2506033017Y0.

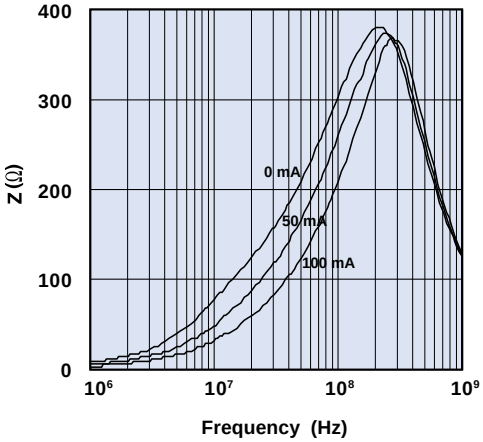


**Figure 8B** Impedance vs. frequency with dc bias as parameter for chip bead 2506033017Y0.

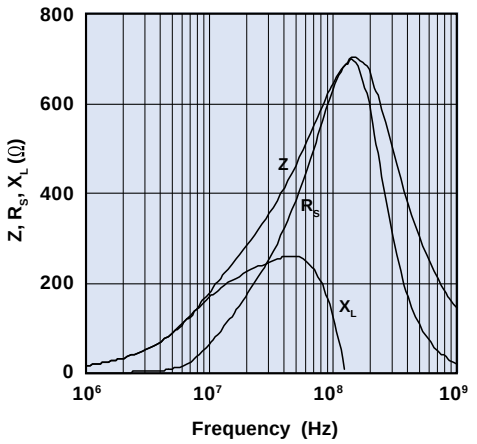


**Figure 9A** Impedance, reactance, and resistance vs. frequency for chip bead 2506036017Y0.

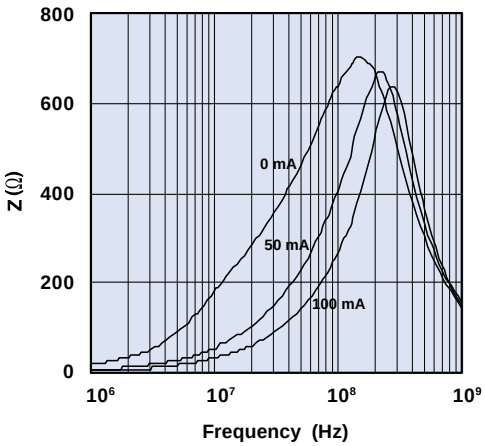


**Figure 9B** Impedance vs. frequency with dc bias as parameter for chip bead 2506036017Y0.

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# Chip Beads

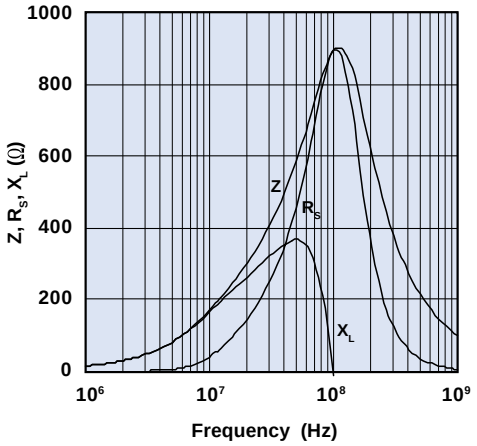


**Figure 10A** Impedance, reactance, and resistance vs. frequency for chip bead 2506031027Y0.

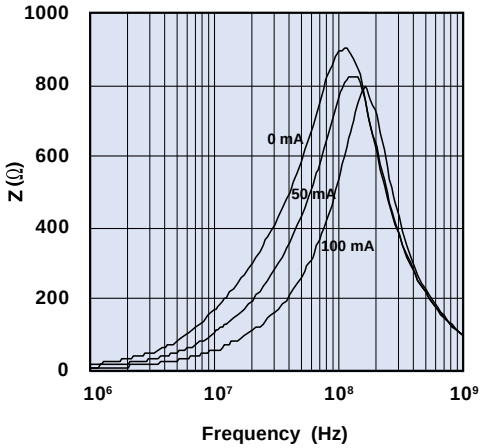


**Figure 10B** Impedance vs. frequency with dc bias as parameter for chip bead 2506031027Y0.

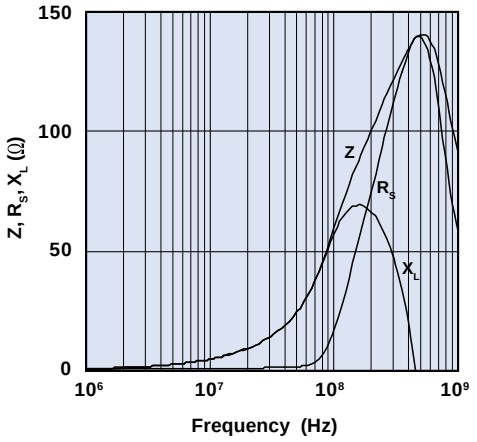


**Figure 11A** Impedance, reactance, and resistance vs. frequency for chip bead 2506036007Z0.

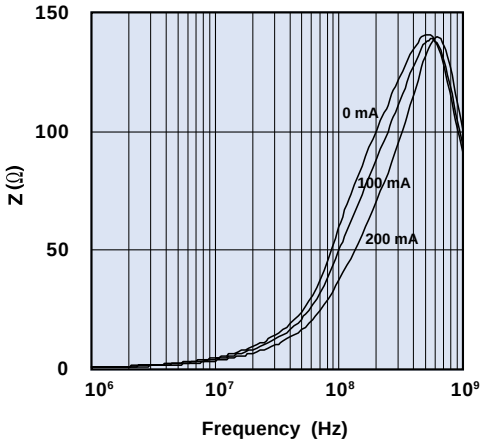


**Figure 11B** Impedance vs. frequency with dc bias as parameter for chip bead 2506036007Z0.

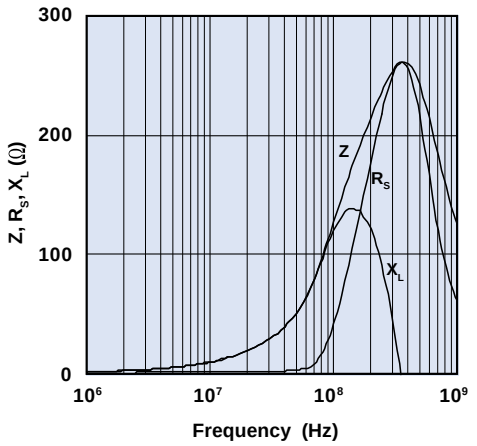


**Figure 12A** Impedance, reactance, and resistance vs. frequency for chip bead 2506031217Z0.

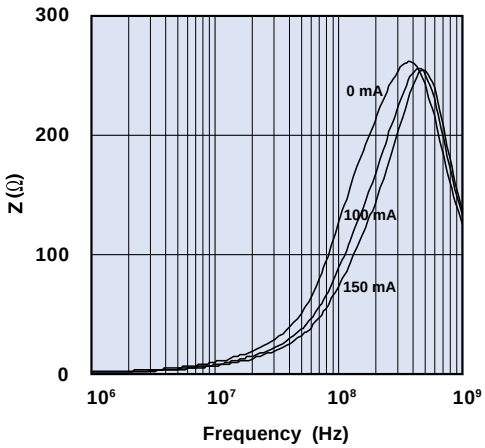


**Figure 12B** Impedance vs. frequency with dc bias as parameter for chip bead 2506031217Z0.

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# Chip Beads

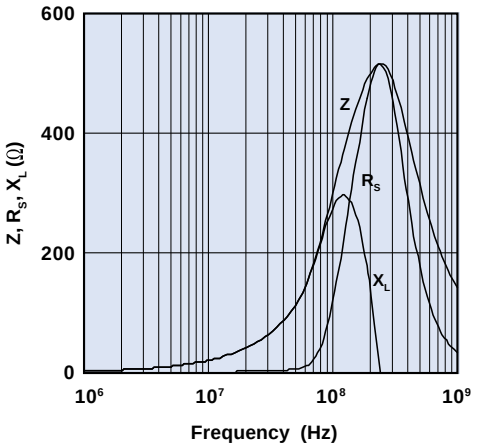


**Figure 13A** Impedance, reactance, and resistance vs. frequency for chip bead 2506033017Z0.

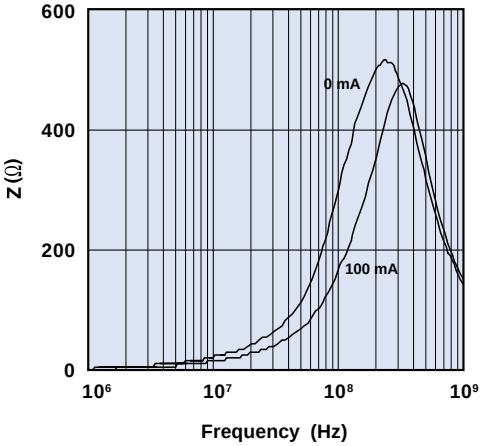


**Figure 13B** Impedance vs. frequency with dc bias as parameter for chip bead 2506033017Z0.

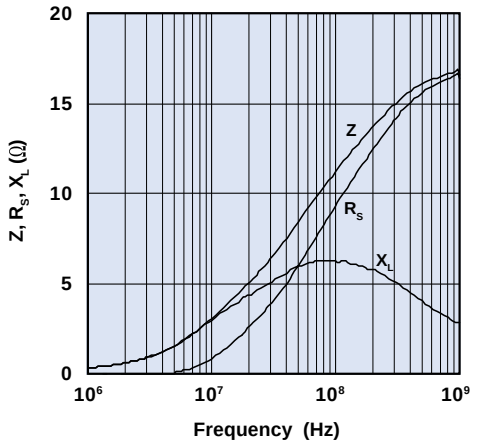


**Figure 14A** Impedance, reactance, and resistance vs. frequency for chip bead 2508051107Y0.

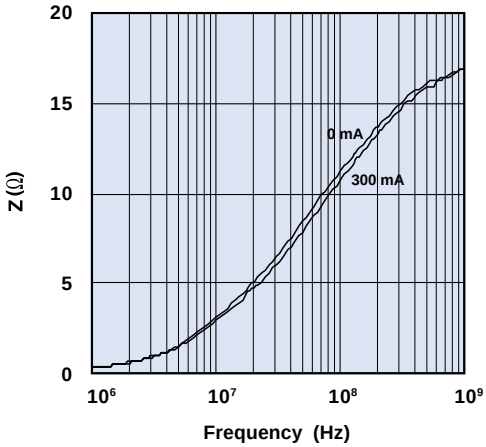


**Figure 14B** Impedance vs. frequency with dc bias as parameter for chip bead 2508051107Y0.

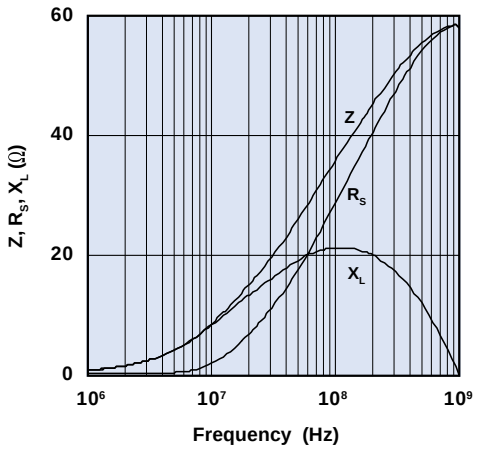


**Figure 15A** Impedance, reactance, and resistance vs. frequency for chip bead 2508053007Y0.

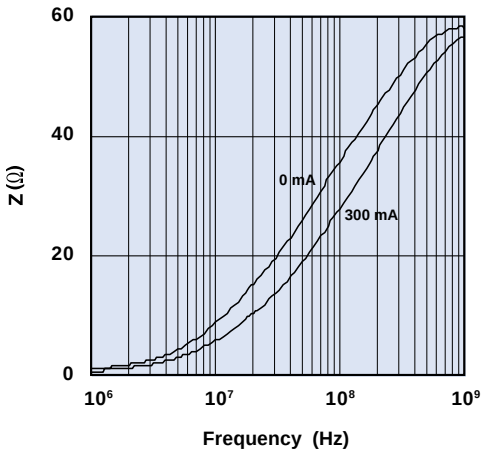


**Figure 15B** Impedance vs. frequency with dc bias as parameter for chip bead 2508053007Y0.

# Chip Beads

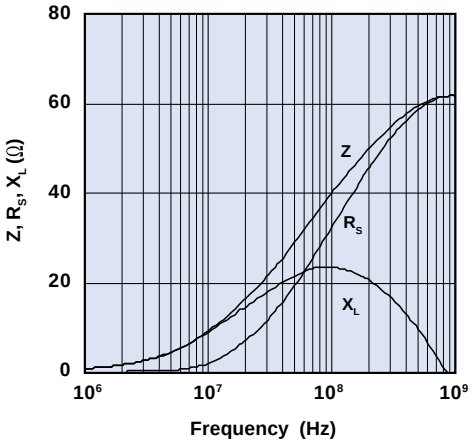


**Figure 16A** Impedance, reactance, and resistance vs. frequency for chip bead 2508055007Y0.

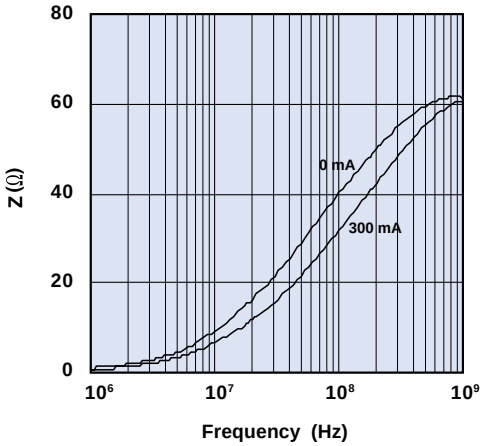


**Figure 16B** Impedance vs. frequency with dc bias as parameter for chip bead 2508055007Y0.

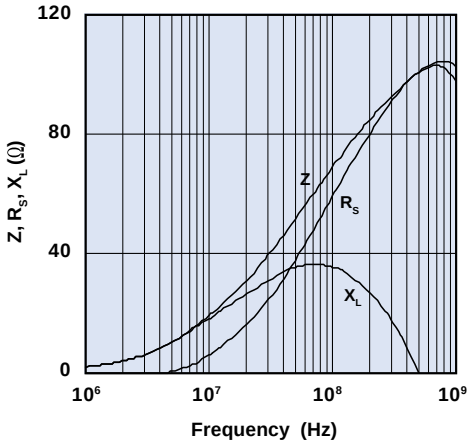


**Figure 17A** Impedance, reactance, and resistance vs. frequency for chip bead 2508056007Y0.

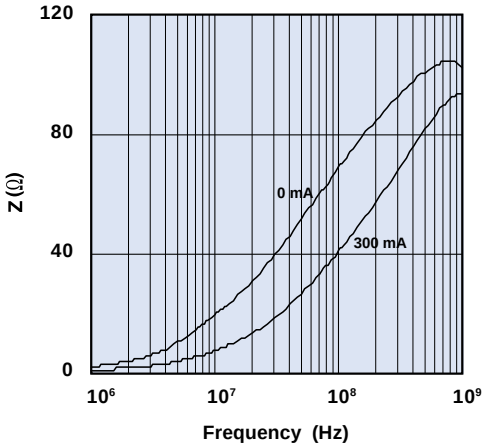


**Figure 17B** Impedance vs. frequency with dc bias as parameter for chip bead 2508056007Y0.

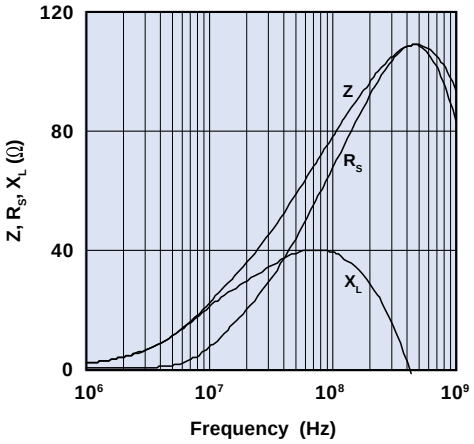


**Figure 18A** Impedance, reactance, and resistance vs. frequency for chip bead 2508059007Y0.

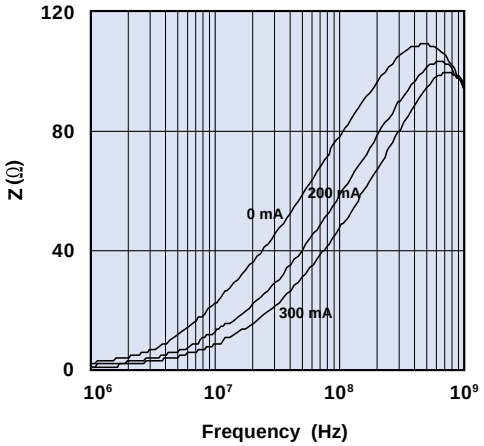


**Figure 18B** Impedance vs. frequency with dc bias as parameter for chip bead 2508059007Y0.

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# Chip Beads

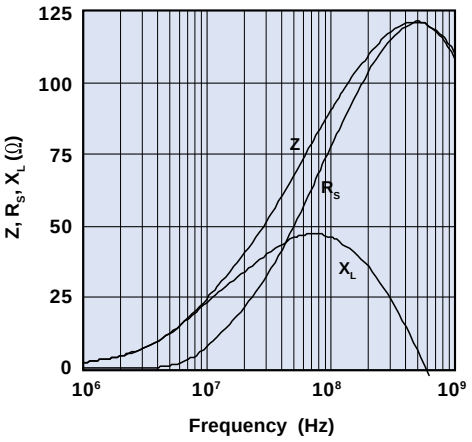


**Figure 19A** Impedance, reactance, and resistance vs. frequency for chip bead 2508051017Y0.

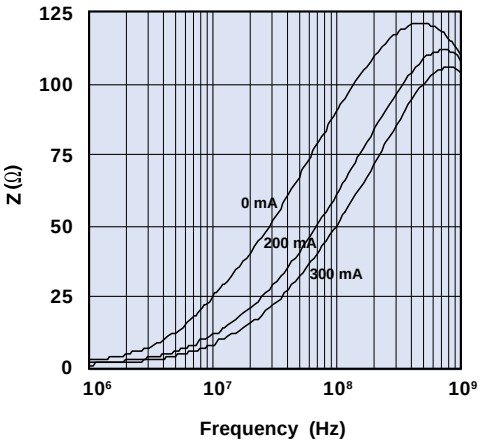


**Figure 19B** Impedance vs. frequency with dc bias as parameter for chip bead 2508051017Y0.

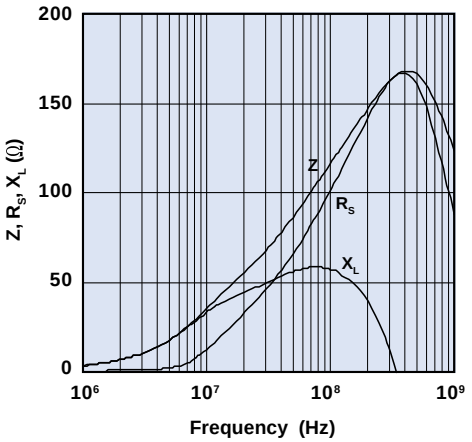


**Figure 20A** Impedance, reactance, and resistance vs. frequency for chip bead 2508051217Y0.

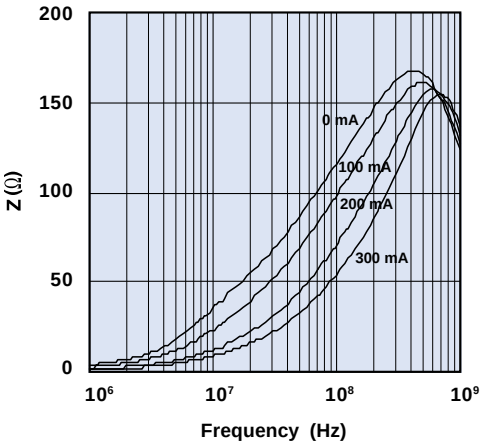


**Figure 20B** Impedance vs. frequency with dc bias as parameter for chip bead 2508051217Y0.

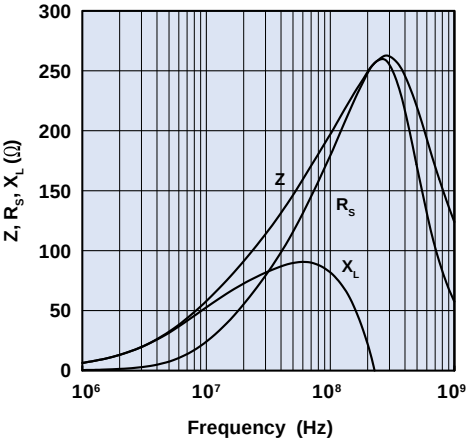


**Figure 21A** Impedance, reactance, and resistance vs. frequency for chip bead 2508051817Y0.

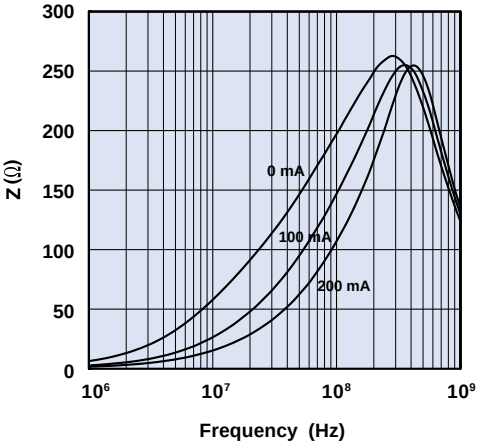


**Figure 21B** Impedance vs. frequency with dc bias as parameter for chip bead 2508051817Y0.

# Chip Beads

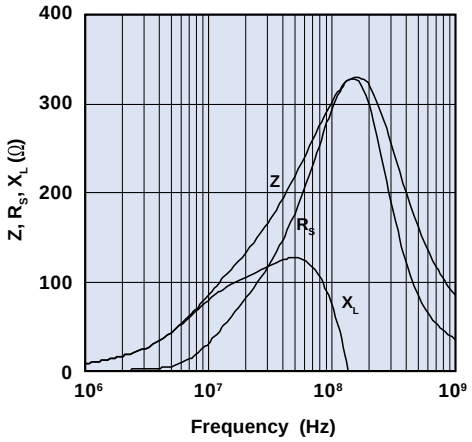


**Figure 22A** Impedance, reactance, and resistance vs. frequency for chip bead 2508053017Y0.

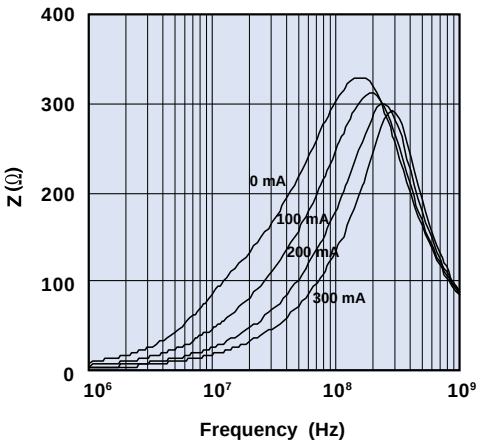


**Figure 22B** Impedance vs. frequency with dc bias as parameter for chip bead 2508053017Y0.

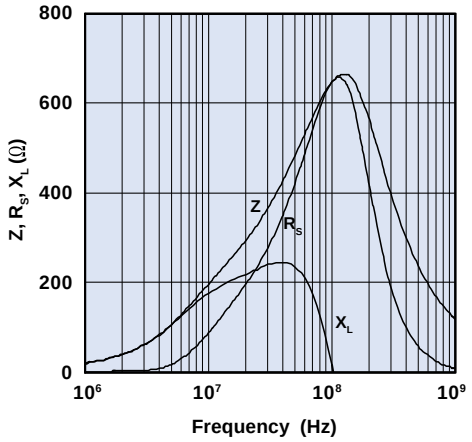


**Figure 23A** Impedance, reactance, and resistance vs. frequency for chip bead 2508056017Y0.

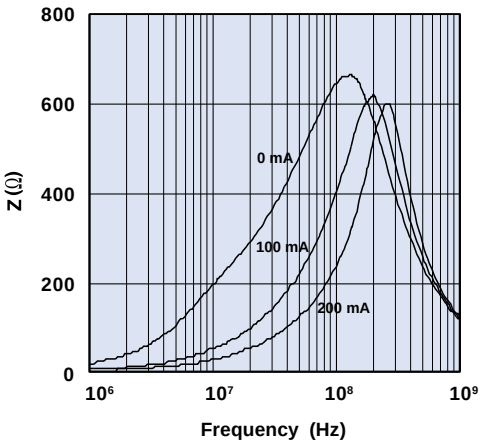


**Figure 23B** Impedance vs. frequency with dc bias as parameter for chip bead 2508056017Y0.

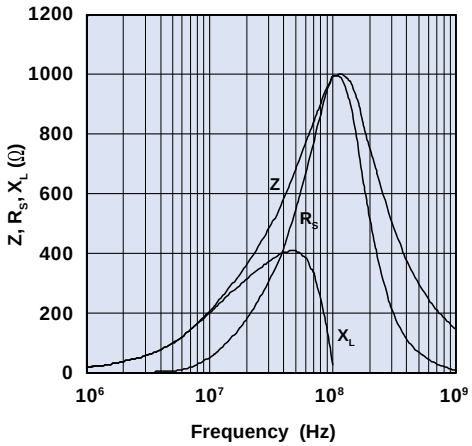


**Figure 24A** Impedance, reactance, and resistance vs. frequency for chip bead 2508051027Y0.

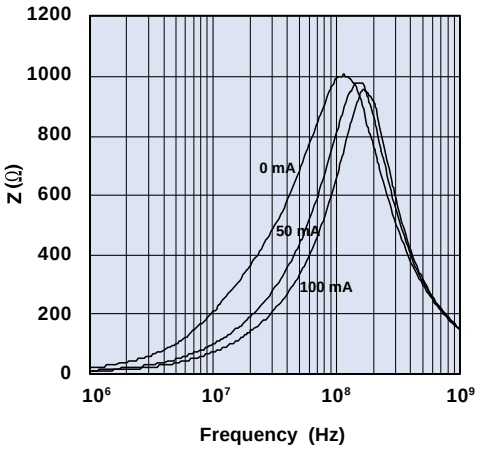


**Figure 24B** Impedance vs. frequency with dc bias as parameter for chip bead 2508051027Y0.

# Chip Beads

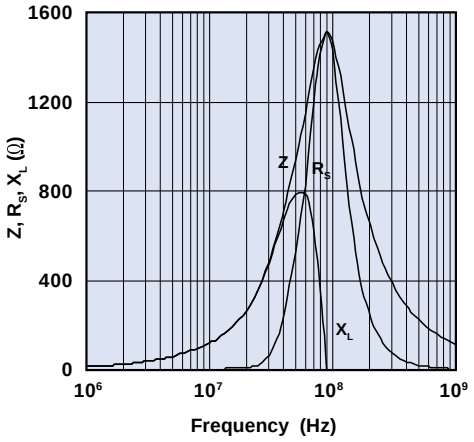


**Figure 25A** Impedance, reactance, and resistance vs. frequency for chip bead 2508051527Y0.

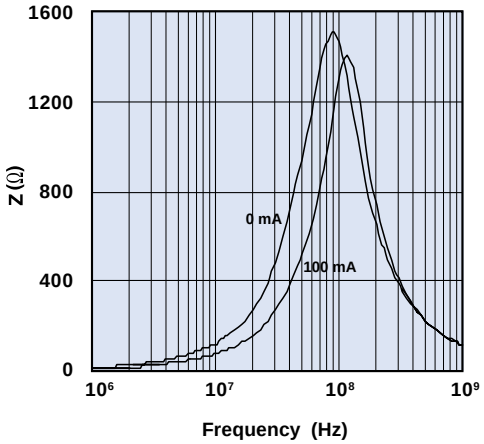


**Figure 25B** Impedance vs. frequency with dc bias as parameter for chip bead 2508051527Y0.

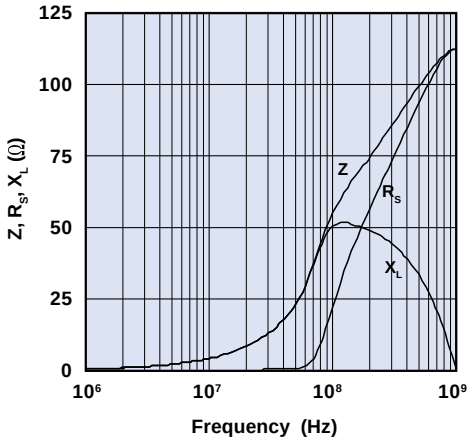


**Figure 26A** Impedance, reactance, and resistance vs. frequency for chip bead 2508056007Z0.

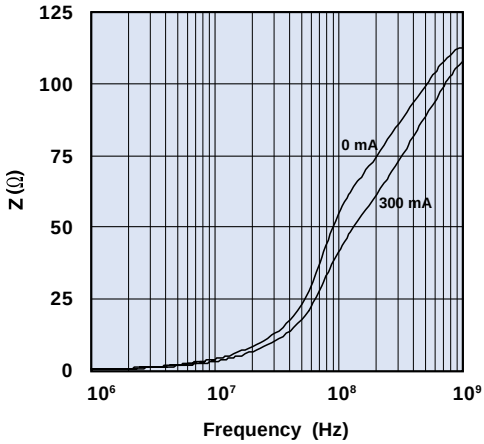


**Figure 26B** Impedance vs. frequency with dc bias as parameter for chip bead 2508056007Z0.

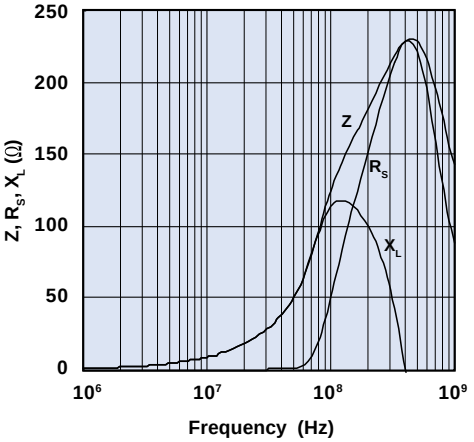


**Figure 27A** Impedance, reactance, and resistance vs. frequency for chip bead 2508051217Z0.

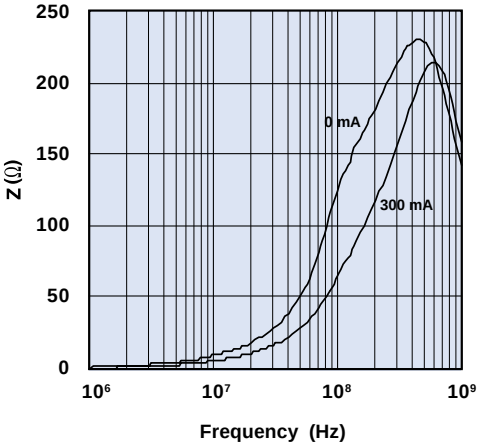


**Figure 27B** Impedance vs. frequency with dc bias as parameter for chip bead 2508051217Z0.

# Chip Beads

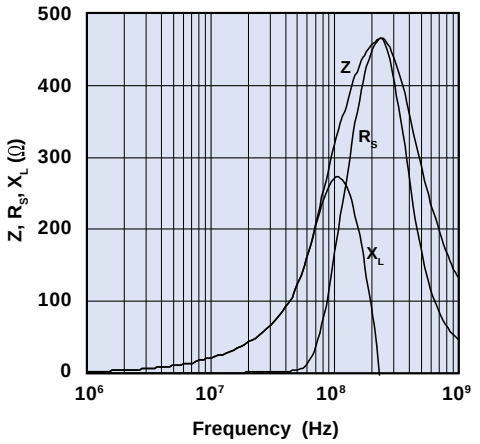


**Figure 28A** Impedance, reactance, and resistance vs. frequency for chip bead 2508053017Z0.

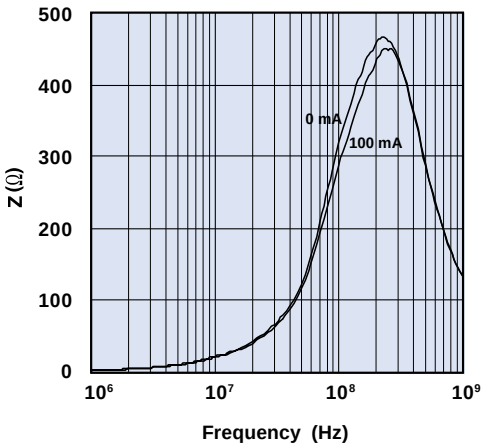


**Figure 28B** Impedance vs. frequency with dc bias as parameter for chip bead 2508053017Z0.

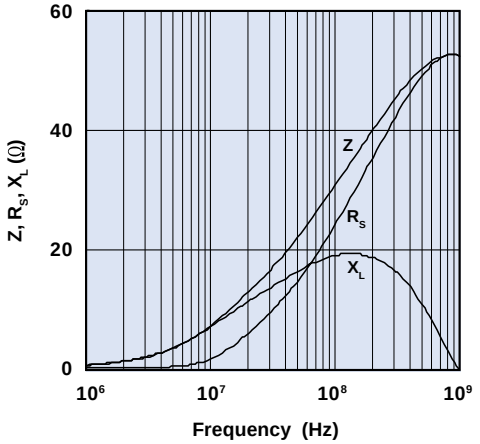


**Figure 29A** Impedance, reactance, and resistance vs. frequency for chip bead 2512063007Y0.

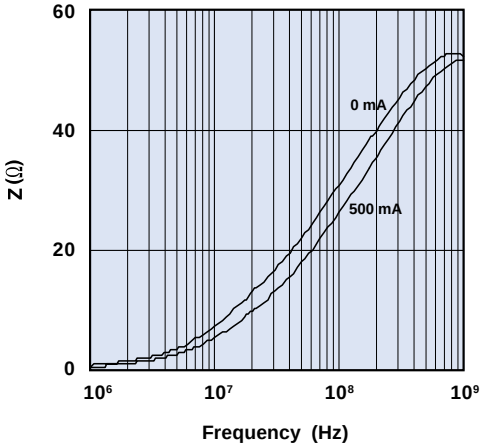


**Figure 29B** Impedance vs. frequency with dc bias as parameter for chip bead 2512063007Y0.

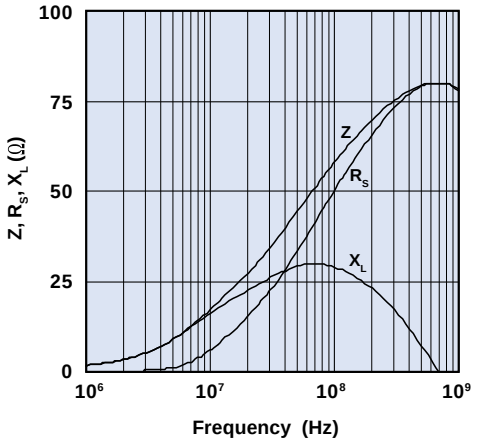


**Figure 30A** Impedance, reactance, and resistance vs. frequency for chip bead 2512065007Y0.

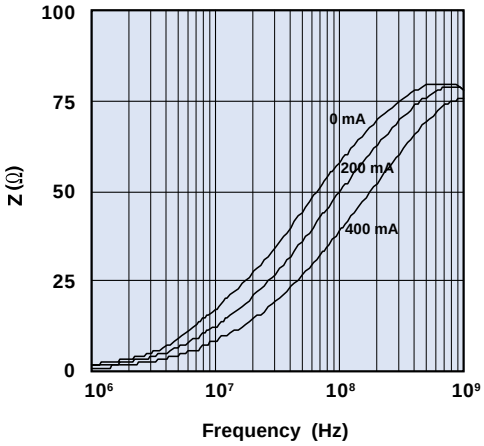


**Figure 30B** Impedance vs. frequency with dc bias as parameter for chip bead 2512065007Y0.

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# Chip Beads

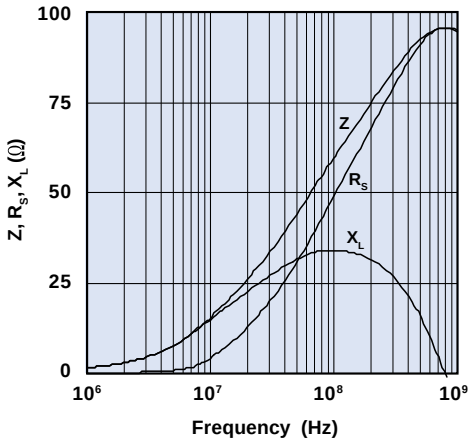


**Figure 31A** Impedance, reactance, and resistance vs. frequency for chip bead 2512066007Y0.

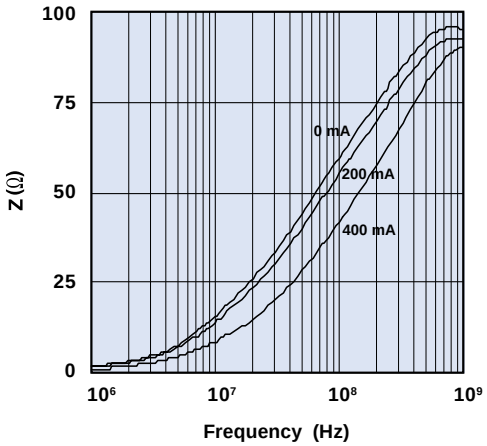


**Figure 31B** Impedance vs. frequency with dc bias as parameter for chip bead 2512066007Y0.

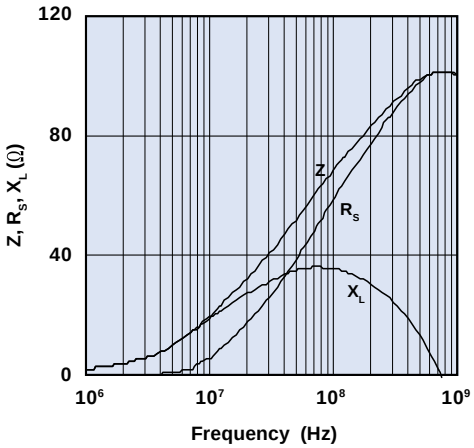


**Figure 32A** Impedance, reactance, and resistance vs. frequency for chip bead 2512067007Y0.

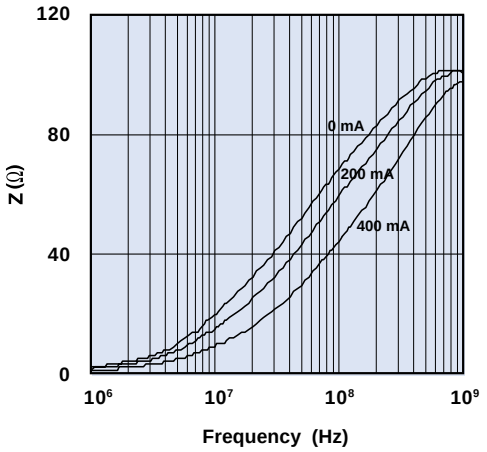


**Figure 32B** Impedance vs. frequency with dc bias as parameter for chip bead 2512067007Y0.

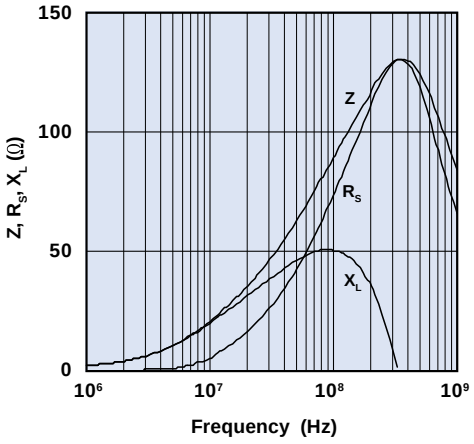


**Figure 33A** Impedance, reactance, and resistance vs. frequency for chip bead 2512068007Y0.

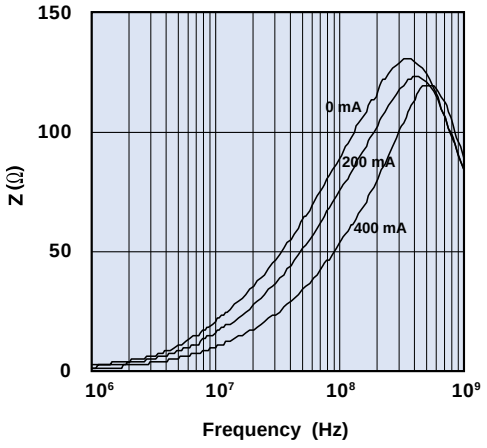


**Figure 33B** Impedance vs. frequency with dc bias as parameter for chip bead 2512068007Y0.

# Chip Beads

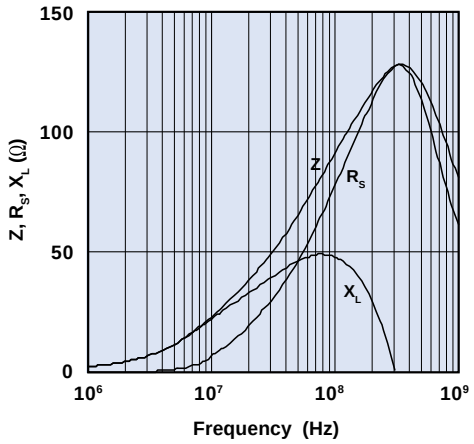


**Figure 34A** Impedance, reactance, and resistance vs. frequency for chip bead 2512069007Y0.

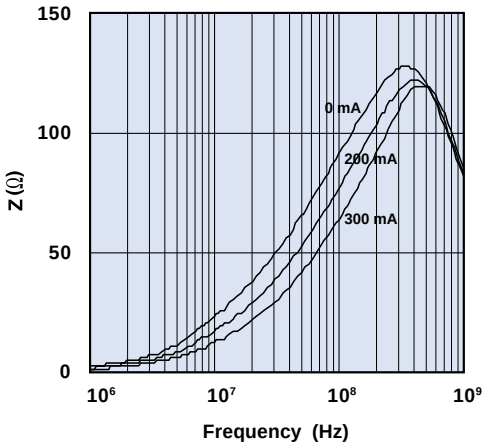


**Figure 34B** Impedance vs. frequency with dc bias as parameter for chip bead 2512069007Y0.

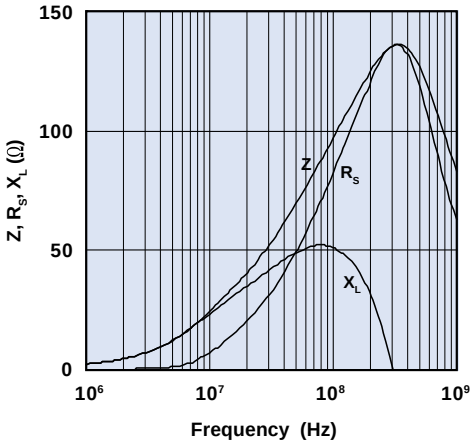


**Figure 35A** Impedance, reactance, and resistance vs. frequency for chip bead 2512061017Y0.

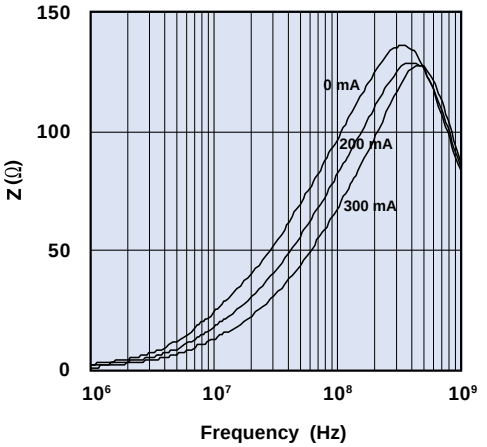


**Figure 35B** Impedance vs. frequency with dc bias as parameter for chip bead 2512061017Y0.

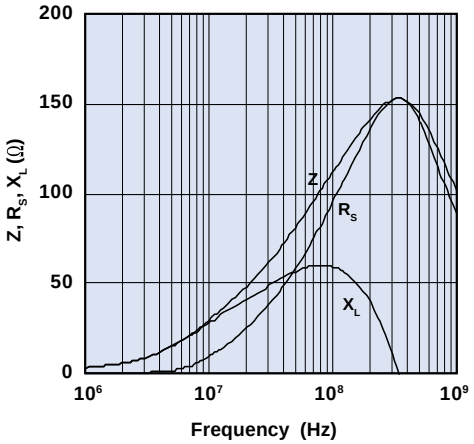


**Figure 36A** Impedance, reactance, and resistance vs. frequency for chip bead 2512061217Y0.

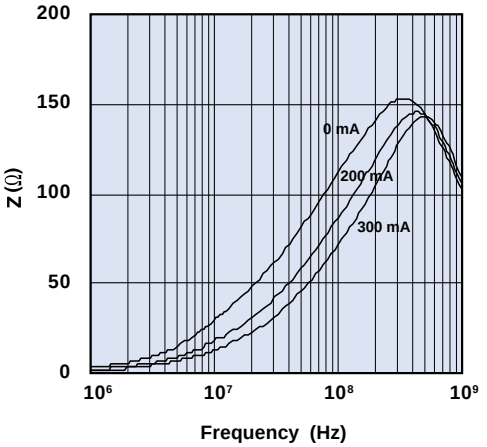


**Figure 36B** Impedance vs. frequency with dc bias as parameter for chip bead 2512061217Y0.

# Chip Beads

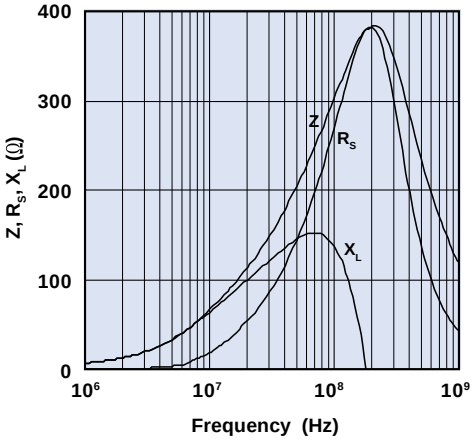


**Figure 37A** Impedance, reactance, and resistance vs. frequency for chip bead 2512063017Y0.

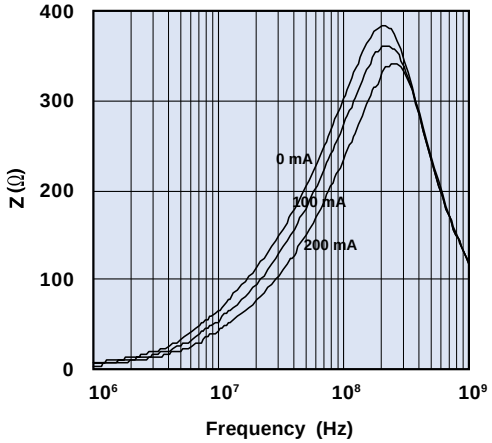


**Figure 37B** Impedance vs. frequency with dc bias as parameter for chip bead 2512063017Y0.

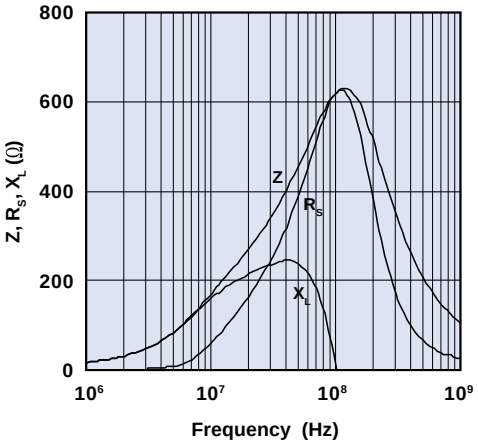


**Figure 38A** Impedance, reactance, and resistance vs. frequency for chip bead 2512066017Y0.

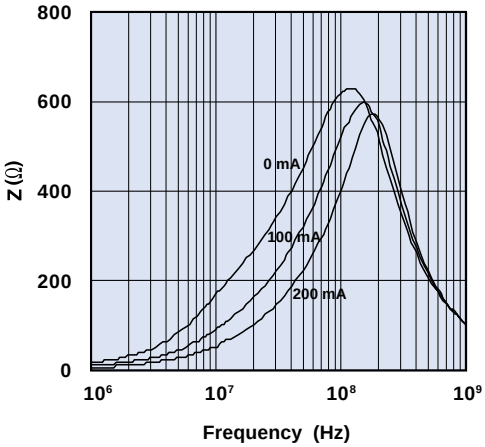


**Figure 38B** Impedance vs. frequency with dc bias as parameter for chip bead 2512066017Y0.

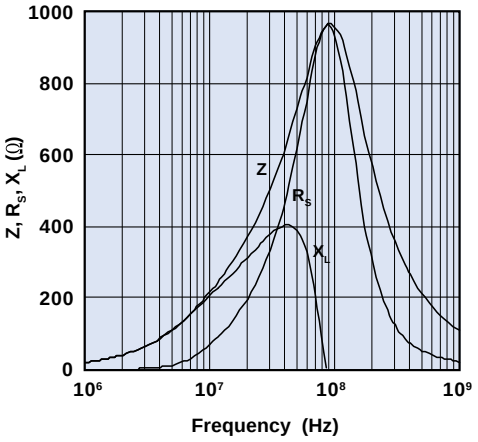


**Figure 39A** Impedance, reactance, and resistance vs. frequency for chip bead 2512061027Y0.

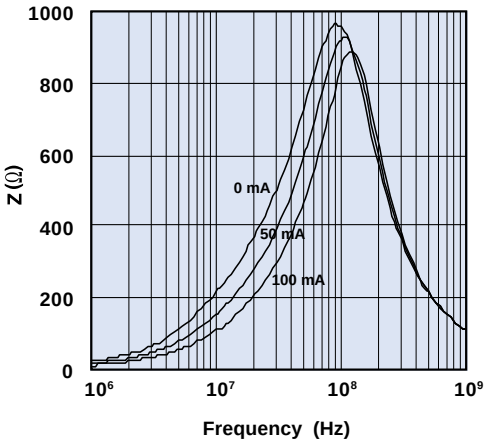


**Figure 39B** Impedance vs. frequency with dc bias as parameter for chip bead 2512061027Y0.

# Chip Beads

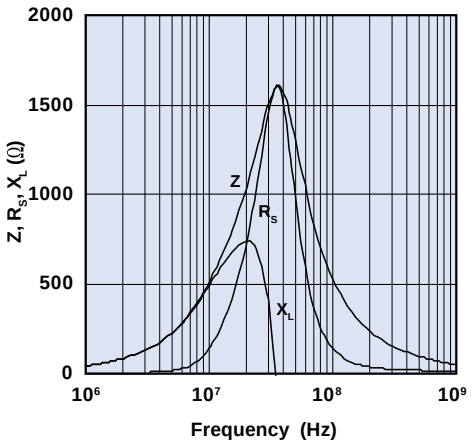


**Figure 40A** Impedance, reactance, and resistance vs. frequency for chip bead 2512061527Y0.

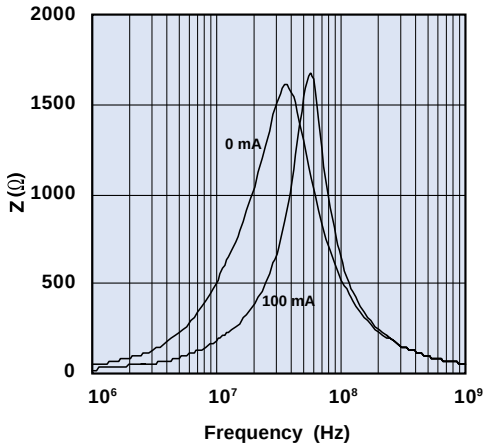


**Figure 40B** Impedance vs. frequency with dc bias as parameter for chip bead 2512061527Y0.

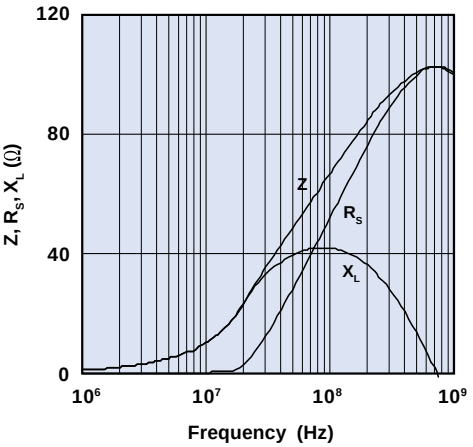


**Figure 41A** Impedance, reactance, and resistance vs. frequency for chip bead 2518066007Y0.

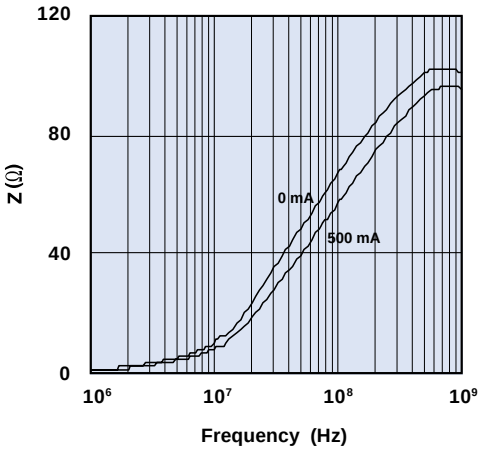


**Figure 41B** Impedance vs. frequency with dc bias as parameter for chip bead 2518066007Y0.

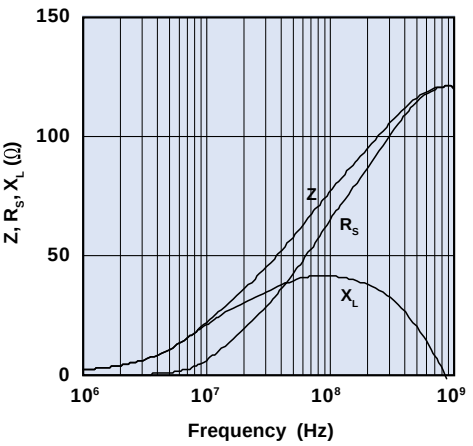


**Figure 42A** Impedance, reactance, and resistance vs. frequency for chip bead 2518067007Y0.

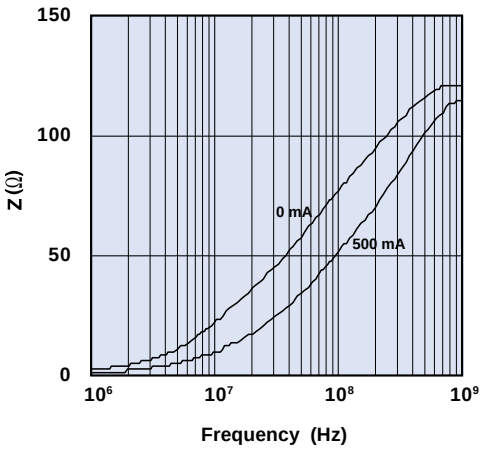


**Figure 42B** Impedance vs. frequency with dc bias as parameter for chip bead 2518067007Y0.

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# Chip Beads

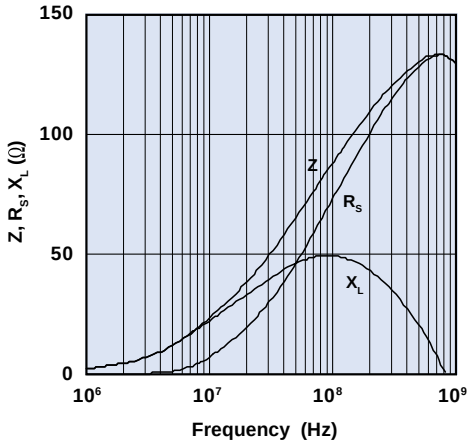


**Figure 43A** Impedance, reactance, and resistance vs. frequency for chip bead 2518068007Y0.

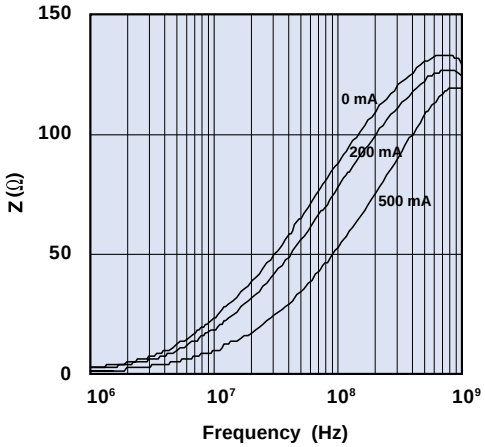


**Figure 43B** Impedance vs. frequency with dc bias as parameter for chip bead 2518068007Y0.

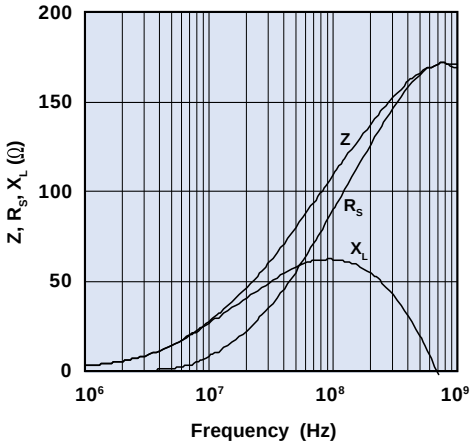


**Figure 44A** Impedance, reactance, and resistance vs. frequency for chip bead 2518061017Y0.

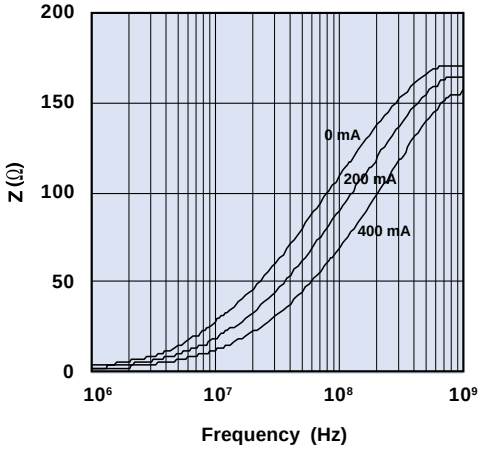


**Figure 44B** Impedance vs. frequency with dc bias as parameter for chip bead 2518061017Y0.

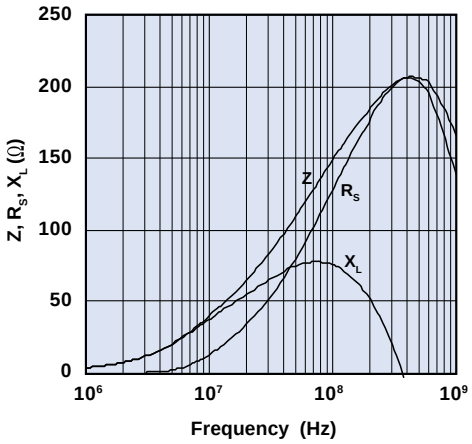


**Figure 45A** Impedance, reactance, and resistance vs. frequency for chip bead 2518061517Y0.

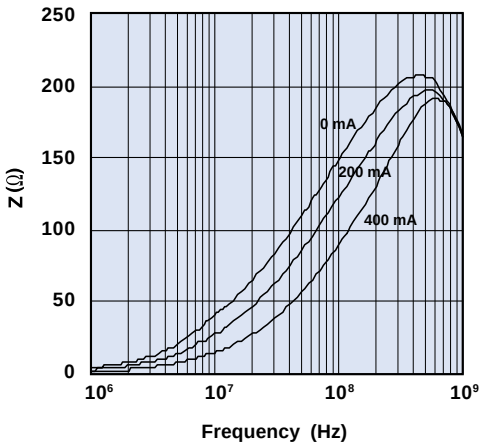


**Figure 45B** Impedance vs. frequency with dc bias as parameter for chip bead 2518061517Y0.

# Chip Beads

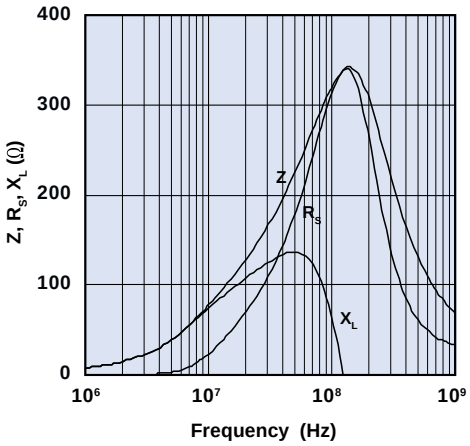


**Figure 46A** Impedance, reactance, and resistance vs. frequency for chip bead 2518063017Y0.

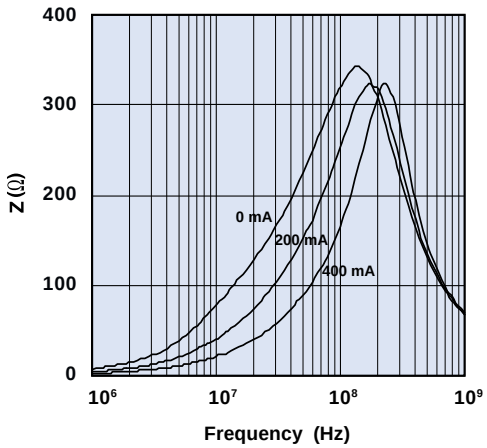


**Figure 46B** Impedance vs. frequency with dc bias as parameter for chip bead 2518063017Y0.

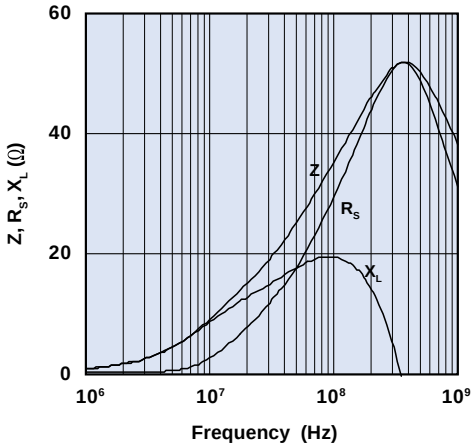


**Figure 47A** Impedance, reactance, and resistance vs. frequency for chip bead 2506033007Y1.

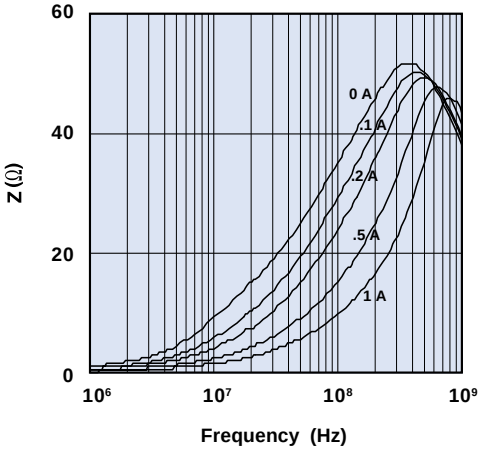


**Figure 47B** Impedance vs. frequency with dc bias as parameter for chip bead 2506033007Y1.

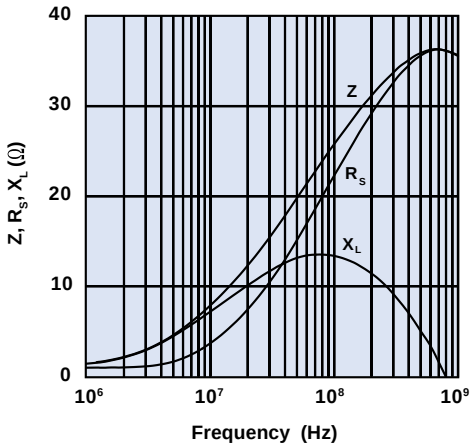


**Figure 48A** Impedance, reactance, and resistance vs. frequency for chip bead 2508053007Y3.

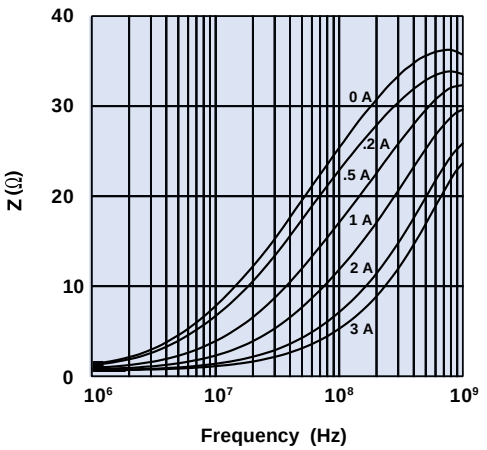


**Figure 48B** Impedance vs. frequency with dc bias as parameter for chip bead 2508053007Y3.

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# Chip Beads

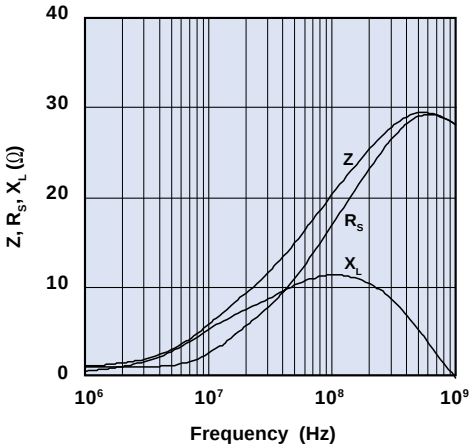


**Figure 49A** Impedance, reactance, and resistance vs. frequency for chip bead 2512061907Y1.

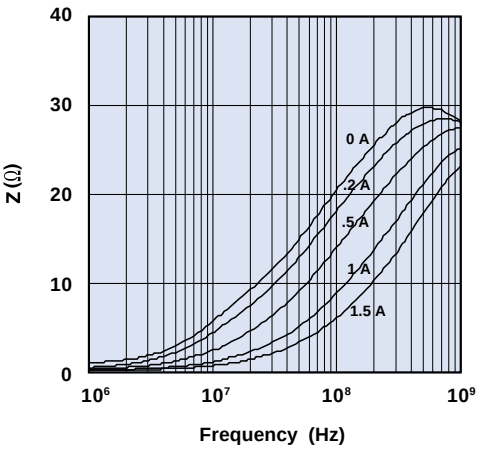


**Figure 49B** Impedance vs. frequency with dc bias as parameter for chip bead 2512061907Y1.

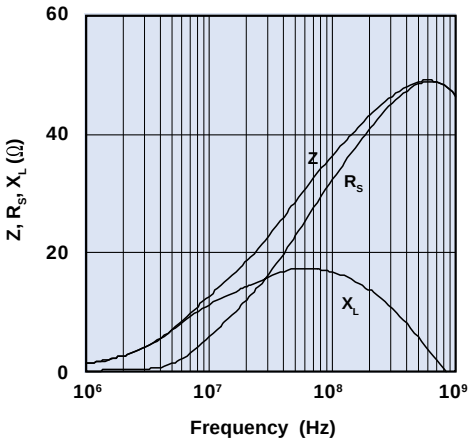


**Figure 50A** Impedance, reactance, and resistance vs. frequency for chip bead 2512063007Y3.

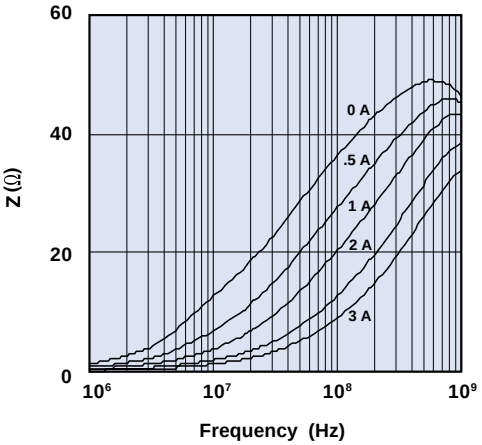


**Figure 50B** Impedance vs. frequency with dc bias as parameter for chip bead 2512063007Y3.

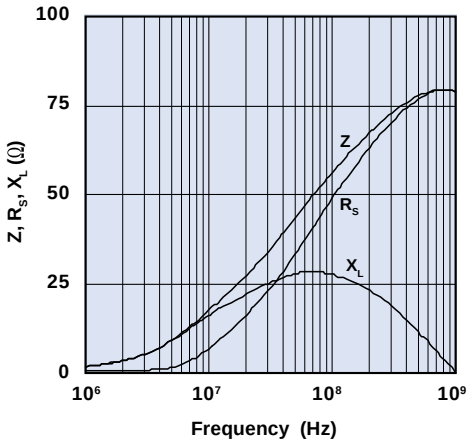


**Figure 51A** Impedance, reactance, and resistance vs. frequency for chip bead 2512065007Y3.

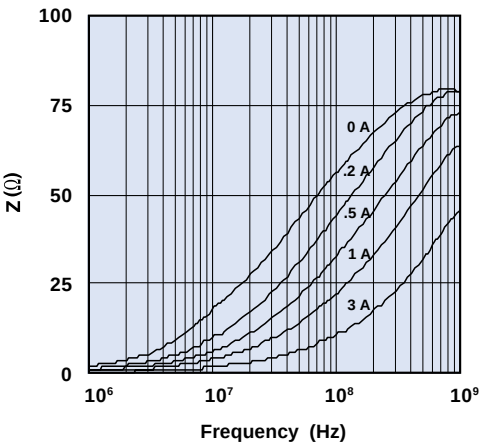


**Figure 51B** Impedance vs. frequency with dc bias as parameter for chip bead 2512065007Y3.

# Chip Beads

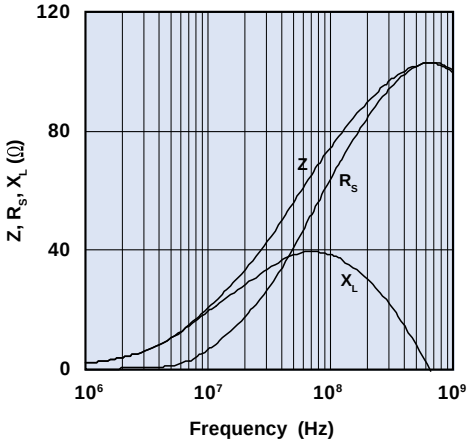


**Figure 52A** Impedance, reactance, and resistance vs. frequency for chip bead 2512067007Y3.

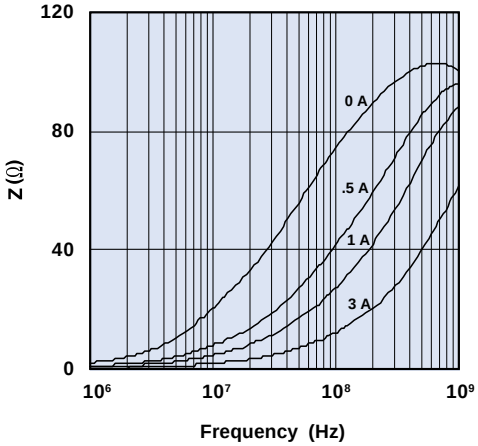


**Figure 52B** Impedance vs. frequency with dc bias as parameter for chip bead 2512067007Y3.

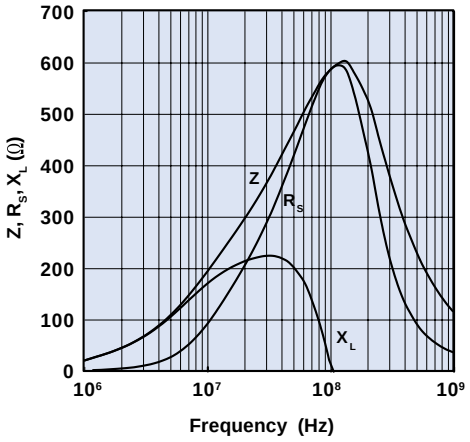


**Figure 53A** Impedance, reactance, and resistance vs. frequency for chip bead 2512066017Y1.

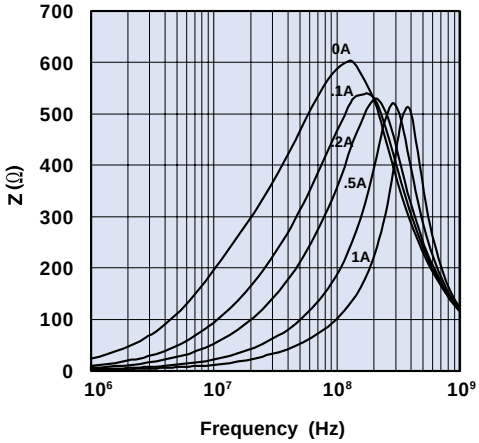


**Figure 53B** Impedance vs. frequency with dc bias as parameter for chip bead 2512066017Y1.

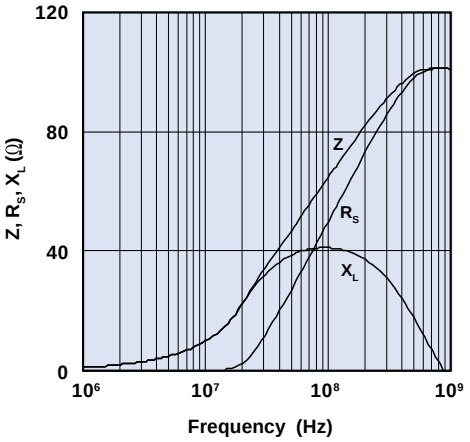


**Figure 54A** Impedance, reactance, and resistance vs. frequency for chip bead 2518066007Y3.

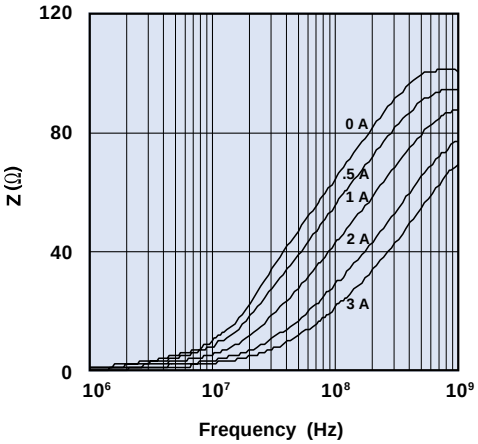


**Figure 54B** Impedance vs. frequency with dc bias as parameter for chip bead 2518066007Y3.

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# Chip Beads

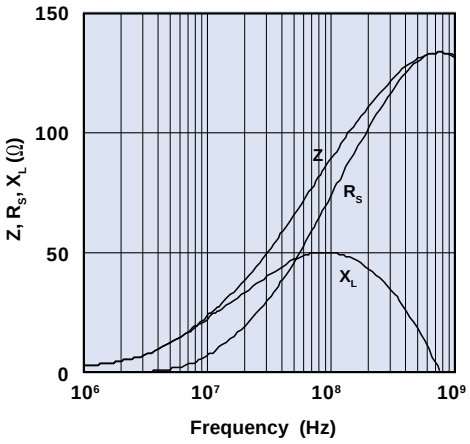


**Figure 55A** Impedance, reactance, and resistance vs. frequency for chip bead 2518068007Y1.

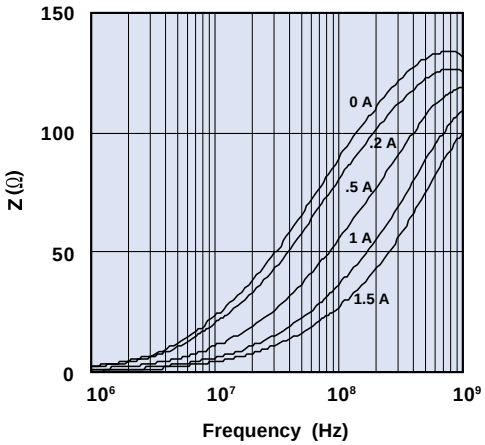


**Figure 55B** Impedance vs. frequency with dc bias as parameter for chip bead 2518068007Y1.

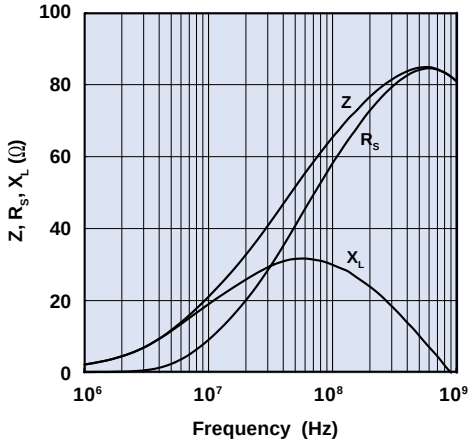


**Figure 56A** Impedance, reactance, and resistance vs. frequency for chip bead 251812007Y3.

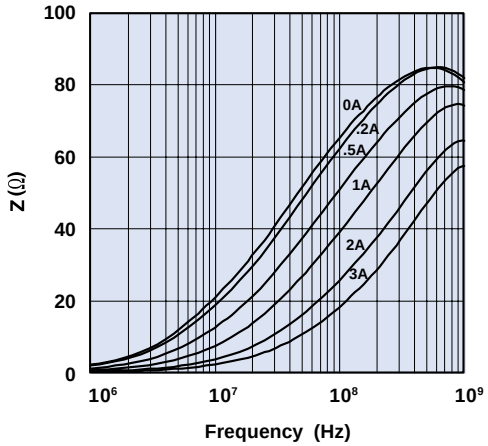


**Figure 56B** Impedance vs. frequency with dc bias as parameter for chip bead 251812007Y3.

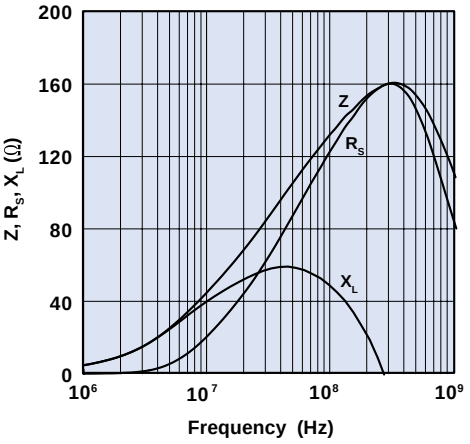


**Figure 57A** Impedance, reactance, and resistance vs. frequency for chip bead 2518121217Y3.

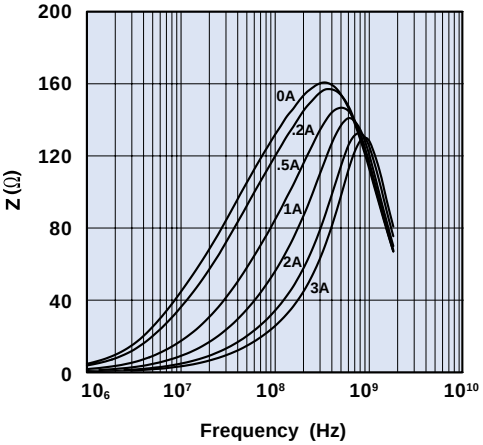


**Figure 57B** Impedance vs. frequency with dc bias as parameter for chip bead 2518121217Y3.

# Chip Beads

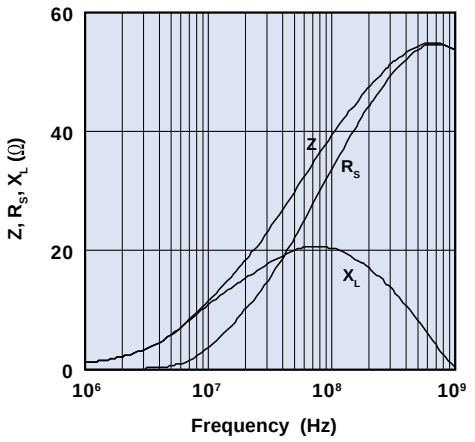


**Figure 58A** Impedance, reactance, and resistance vs. frequency for chip bead 2512065007Y6.

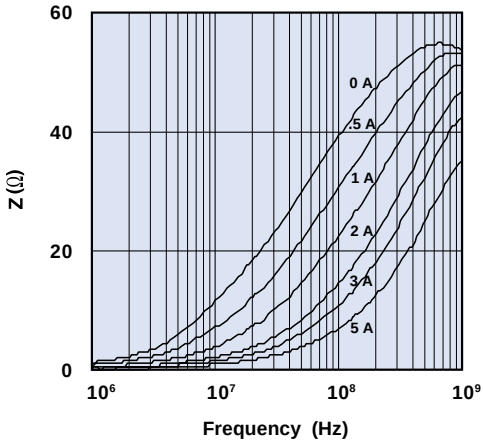


**Figure 59B** Impedance vs. frequency with dc bias as parameter for chip bead 2512065007Y6.

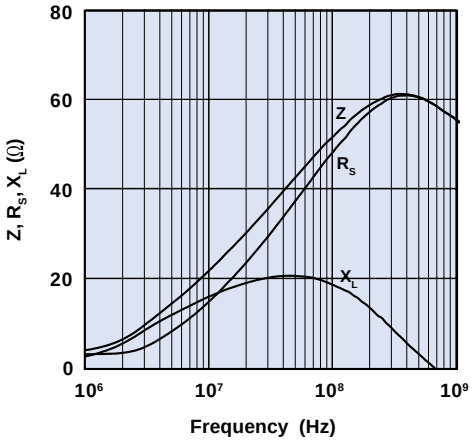


**Figure 59A** Impedance, reactance, and resistance vs. frequency for chip bead 2518065007Y6.

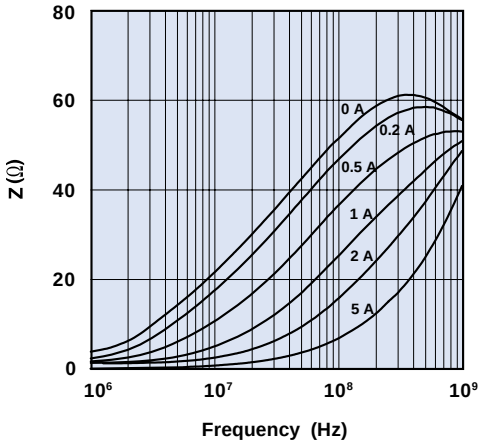


**Figure 59B** Impedance vs. frequency with dc bias as parameter for chip bead 2518065007Y6.

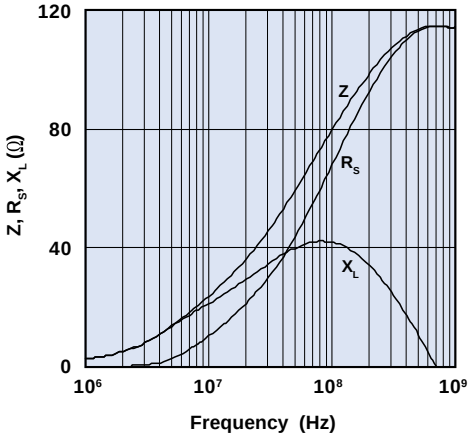


**Figure 60A** Impedance, reactance, and resistance vs. frequency for chip bead 2518068007Y6.

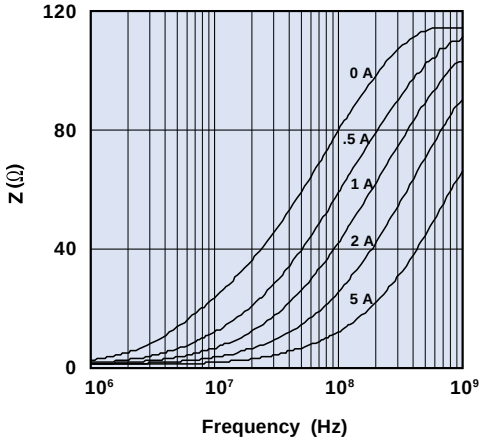


**Figure 60B** Impedance vs. frequency with dc bias as parameter for chip bead 2518068007Y6.

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# Chip Beads

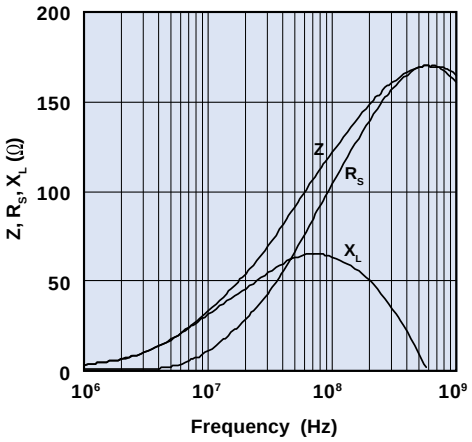


**Figure 61A** Impedance, reactance, and resistance vs. frequency for chip bead 2518121217Y6.

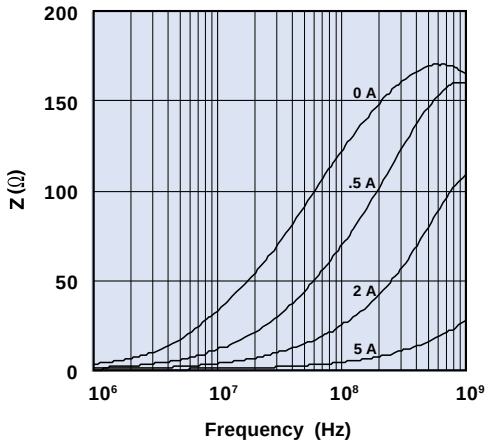


**Figure 61B** Impedance vs. frequency with dc bias as parameter for chip bead 2518121217Y6.

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