

- Features:
- ✓ Standard chip bead used to suppress lower frequency and lower current signals
 - ✓ Offers impedance over a broad frequency range
 - ✓ High current option available up to 6A
 - ✓ Suitable for flow and reflow soldering
 - ✓ Available in 8 sizes
 - ✓ For inductance values outside those listed in the datasheet, contact factory
 - ✓ Find Frequency Curves, Environmental and Packaging specifications in related supplemental documents

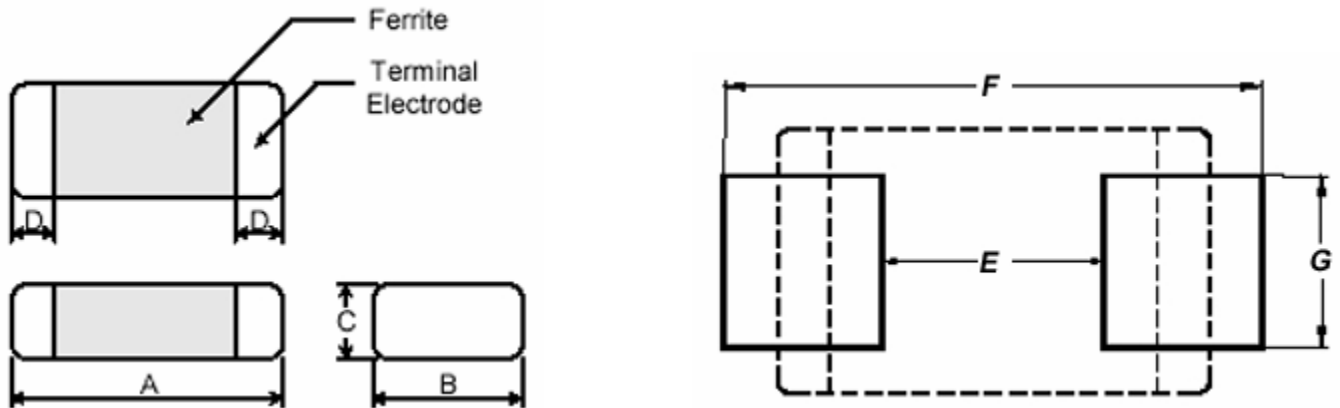


- Applications:
- ✓ Cellular phones
 - ✓ I/O ports
 - ✓ Signal lines
 - ✓ Bluetooth module
 - ✓ DC power lines
 - ✓ RF transceiver modules
 - ✓ Computer and peripheral products
 - ✓ Communication appliances

| Impedance and Current Ranges | | | | | |
|------------------------------|--------------------|--------------|--------------|--------------------|----------------|
| General Purpose and High Q | | | High Current | | |
| CB02 | 6 - 600 Ω | 500 - 100 mA | CB02 | 10 Ω | 1000 mA |
| CB03 | 11 - 2700 Ω | 500 - 50 mA | CB03 | 11 - 1000 Ω | 4000 - 800 mA |
| CB05 | 7 - 2700 Ω | 600 - 100 mA | CB05 | 11 - 1000 Ω | 6000 - 1500 mA |
| CB04 | 19 - 2700 Ω | 600 - 200 mA | CB04 | 19 - 1500 Ω | 6000 - 800 mA |
| CB06 | 25 - 70 Ω | 500 mA | - | - | - |
| CB10 | 32 - 90 Ω | 500 mA | CB10 | 60 - 90 Ω | 4000 - 3000 mA |
| CB08 | 50 - 170 Ω | 600 - 500 mA | CB08 | 50 - 150 Ω | 6000 - 2000 mA |
| CB12 | 70 - 120 Ω | 500 mA | CB12 | 70 - 120 Ω | 6000 - 4000 mA |

How to Order

| SEI Type | | Dimensions | | Tolerance | | Packaging | | Design Code | | Current | | Impedance | |
|----------|--------------|------------|------|-----------|------------|-----------|-------------|-------------|----------|---------|---------|-----------|---------------|
| CB | | 05 | | Y | | T | | Y | | N | | 110 | |
| Type | Description | Code | EIA | Code | Tolerance | Code | Type | Code | Type | Code | Type | Code | Impedance |
| CB | Ferrite Bead | 02 | 0402 | Y | $\pm 25\%$ | T | Tape & Reel | Y | ui : 200 | H | High | 090 | 9 Ω |
| | | 03 | 0603 | | | | | Q | ui : 75 | N | General | 110 | 11 Ω |
| | | 05 | 0805 | | | | | | | | | 451 | 450 Ω |
| | | 04 | 1204 | | | | | | | | | 152 | 1500 Ω |
| | | 06 | 1206 | | | | | | | | | | |
| | | 10 | 1210 | | | | | | | | | | |
| | | 08 | 1808 | | | | | | | | | | |
| | | 12 | 1812 | | | | | | | | | | |



| Mechanical Specifications | | | | | | | | |
|---------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|--------------|--------------|--------------|--------------|
| Type / Code | A | B | C | D | E | F | G | Units |
| CB02 | 0.039 ± 0.004 1 ± 0.1 | 0.02 ± 0.004 0.5 ± 0.1 | 0.02 ± 0.004 0.5 ± 0.1 | 0.01 ± 0.004 0.25 ± 0.1 | 0.016 0.4 | 0.055 1.4 | 0.016 0.4 | inches mm |
| CB03 | 0.063 ± 0.008 1.6 ± 0.2 | 0.032 ± 0.006 0.8 ± 0.15 | 0.032 ± 0.006 0.8 ± 0.15 | 0.012 ± 0.008 0.3 ± 0.2 | 0.032 0.8 | 0.134 3.4 | 0.024 0.6 | inches mm |
| CB05 | 0.079 ± 0.008 2 ± 0.2 | 0.049 ± 0.008 1.25 ± 0.2 | 0.035 ± 0.008 0.9 ± 0.2 | 0.02 ± 0.012 0.5 ± 0.3 | 0.047 1.2 | 0.157 4 | 0.039 1 | inches mm |
| CB04 | 0.126 ± 0.008 3.2 ± 0.2 | 0.063 ± 0.008 1.6 ± 0.2 | 0.043 ± 0.008 1.1 ± 0.2 | 0.02 ± 0.012 0.5 ± 0.3 | 0.079 2 | 0.205 5.2 | 0.047 1.2 | inches mm |
| CB06 | 0.126 ± 0.008 3.2 ± 0.2 | 0.063 ± 0.008 1.6 ± 0.2 | 0.063 ± 0.008 1.6 ± 0.2 | 0.02 ± 0.012 0.5 ± 0.3 | 0.079 2 | 0.205 5.2 | 0.047 1.2 | inches mm |
| CB10 | 0.126 ± 0.008 3.2 ± 0.2 | 0.098 ± 0.008 2.5 ± 0.2 | 0.051 ± 0.008 1.3 ± 0.2 | 0.02 ± 0.012 0.5 ± 0.3 | 0.079 2 | 0.256 6.5 | 0.071 1.8 | inches mm |
| CB08 | 0.177 ± 0.01 4.5 ± 0.25 | 0.063 ± 0.008 1.6 ± 0.2 | 0.063 ± 0.008 1.6 ± 0.2 | 0.02 ± 0.012 0.5 ± 0.3 | 0.118 3 | 0.256 6.5 | 0.047 1.2 | inches mm |
| CB12 | 0.177 ± 0.01 4.5 ± 0.25 | 0.126 ± 0.008 3.2 ± 0.2 | 0.177 ± 0.008 1.5 ± 0.2 | 0.02 ± 0.012 0.5 ± 0.3 | 0.118 3 | 0.256 6.5 | 0.94 2.4 | inches mm |

| Electrical Characteristics – CB 02 Standard | | | | |
|---|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB02YTYN060 | 6 | 100 | 0.05 | 500 |
| CB02YTYN100 | 10 | 100 | 0.05 | 500 |
| CB02YTYN400 | 40 | 100 | 0.3 | 300 |
| CB02YTYN800 | 80 | 100 | 0.4 | 200 |
| CB02YTYN121 | 120 | 100 | 0.5 | 200 |
| CB02YTYN241 | 240 | 100 | 0.5 | 200 |
| CB02YTYN481 | 480 | 100 | 0.8 | 100 |
| CB02YTYN601 | 600 | 100 | 1 | 100 |

| Electrical Characteristics – CB03 Standard | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB03YTYN110 | 11 | 100 | 0.05 | 500 |
| CB03YTYN190 | 19 | 100 | 0.08 | 500 |
| CB03YTYN300 | 30 | 100 | 0.1 | 400 |
| CB03YTYN400 | 40 | 100 | 0.1 | 400 |
| CB03YTYN600 | 60 | 100 | 0.1 | 300 |
| CB03YTYN800 | 80 | 100 | 0.15 | 300 |
| CB03YTYN121 | 120 | 100 | 0.25 | 300 |
| CB03YTYN221 | 220 | 100 | 0.3 | 200 |
| CB03YTYN301 | 300 | 100 | 0.4 | 200 |
| CB03YTYN451 | 450 | 100 | 0.5 | 200 |
| CB03YTYN601 | 600 | 100 | 0.5 | 200 |
| CB03YTYN751 | 750 | 100 | 0.7 | 200 |
| CB03YTYN102 | 1000 | 100 | 0.7 | 200 |
| CB03YTYN152 | 1500 | 100 | 1 | 50 |
| CB03YTYN222 | 2200 | 100 | 1.2 | 50 |
| CB03YTYN272 | 2700 | 100 | 1.3 | 50 |

| Electrical Characteristics – CB05 Standard | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB05YTYN070 | 7 | 100 | 0.1 | 600 |
| CB05YTYN090 | 9 | 100 | 0.1 | 600 |
| CB05YTYN110 | 11 | 100 | 0.1 | 600 |
| CB05YTYN170 | 17 | 100 | 0.1 | 600 |
| CB05YTYN320 | 32 | 100 | 0.1 | 600 |
| CB05YTYN600 | 60 | 100 | 0.15 | 500 |
| CB05YTYN700 | 70 | 100 | 0.15 | 500 |
| CB05YTYN800 | 80 | 100 | 0.15 | 500 |
| CB05YTYN121 | 120 | 100 | 0.25 | 300 |
| CB05YTYN151 | 150 | 100 | 0.25 | 300 |
| CB05YTYN221 | 220 | 100 | 0.3 | 300 |
| CB05YTYN301 | 300 | 100 | 0.3 | 300 |
| CB05YTYN401 | 400 | 100 | 0.3 | 300 |
| CB05YTYN501 | 500 | 100 | 0.4 | 300 |
| CB05YTYN601 | 600 | 100 | 0.4 | 300 |
| CB05YTYN751 | 750 | 100 | 0.5 | 200 |
| CB05YTYN102 | 1000 | 100 | 0.5 | 200 |
| CB05YTYN152 | 1500 | 100 | 0.6 | 200 |
| CB05YTYN202 | 2000 | 100 | 0.8 | 100 |
| CB05YTYN222 | 2200 | 100 | 1 | 100 |
| CB05YTYN252 | 2500 | 100 | 1 | 100 |
| CB05YTYN272 | 2700 | 100 | 1.5 | 100 |

| Electrical Characteristics – CB04 Standard | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB04YTYN190 | 19 | 100 | 0.05 | 600 |
| CB04YTYN260 | 26 | 100 | 0.05 | 600 |
| CB04YTYN320 | 32 | 100 | 0.05 | 600 |
| CB04YTYN500 | 50 | 100 | 0.1 | 500 |
| CB04YTYN600 | 60 | 100 | 0.1 | 500 |
| CB04YTYN700 | 70 | 100 | 0.1 | 500 |
| CB04YTYN900 | 90 | 100 | 0.15 | 500 |
| CB04YTYN121 | 120 | 100 | 0.15 | 500 |
| CB04YTYN151 | 150 | 100 | 0.15 | 500 |
| CB04YTYN201 | 200 | 100 | 0.2 | 400 |
| CB04YTYN401 | 400 | 100 | 0.2 | 400 |
| CB04YTYN501 | 500 | 100 | 0.2 | 400 |
| CB04YTYN601 | 600 | 100 | 0.3 | 400 |
| CB04YTYN102 | 1000 | 50 | 0.4 | 200 |
| CB04YTYN122 | 1200 | 50 | 0.4 | 200 |
| CB04YTYN152 | 1500 | 50 | 0.45 | 200 |
| CB04YTYN202 | 2000 | 30 | 0.6 | 200 |
| CB04YTYN272 | 2700 | 30 | 0.6 | 200 |

| Electrical Characteristics – CB06 Standard | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB06YTYN250 | 25 | 100 | 0.1 | 500 |
| CB06YTYN600 | 60 | 100 | 0.2 | 500 |
| CB06YTYN700 | 70 | 100 | 0.2 | 500 |

| Electrical Characteristics – CB10 Standard | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB10YTYN320 | 32 | 100 | 0.2 | 500 |
| CB10YTYN600 | 60 | 100 | 0.2 | 500 |
| CB10YTYN900 | 90 | 100 | 0.2 | 500 |

| Electrical Characteristics – CB08 Standard | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB08YTYN500 | 50 | 100 | 0.2 | 600 |
| CB08YTYN600 | 60 | 100 | 0.2 | 600 |
| CB08YTYN800 | 80 | 100 | 0.2 | 600 |
| CB08YTYN101 | 100 | 100 | 0.3 | 500 |
| CB08YTYN151 | 150 | 100 | 0.3 | 500 |
| CB08YTYN171 | 170 | 100 | 0.3 | 500 |

| Electrical Characteristics – CB12 Standard | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB12YTYN700 | 70 | 100 | 0.3 | 500 |
| CB12YTYN121 | 120 | 100 | 0.3 | 500 |

| Electrical Characteristics – CB03 High Current | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB03YTYH110 | 11 | 100 | 0.02 | 4000 |
| CB03YTYH250 | 25 | 100 | 0.03 | 3000 |
| CB03YTYH400 | 40 | 100 | 0.035 | 3000 |
| CB03YTYH600 | 60 | 100 | 0.04 | 3000 |
| CB03YTYH121 | 120 | 100 | 0.08 | 2500 |
| CB03YTYH301 | 300 | 100 | 0.1 | 2000 |
| CB03YTYH501 | 500 | 100 | 0.15 | 1500 |
| CB03YTYH601 | 600 | 100 | 0.2 | 1000 |
| CB03YTYH102 | 1000 | 100 | 0.25 | 800 |

| Electrical Characteristics – CB05 High Current | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB05YTYH110 | 11 | 100 | 0.01 | 6000 |
| CB05YTYH170 | 17 | 100 | 0.02 | 5000 |
| CB05YTYH300 | 30 | 100 | 0.015 | 5000 |
| CB05YTYH500 | 50 | 100 | 0.025 | 3000 |
| CB05YTYH600 | 60 | 100 | 0.03 | 3000 |
| CB05YTYH800 | 80 | 100 | 0.04 | 3000 |
| CB05YTYH121 | 120 | 100 | 0.04 | 3000 |
| CB05YTYH201 | 200 | 100 | 0.05 | 2500 |
| CB05YTYH301 | 300 | 100 | 0.08 | 2000 |
| CB05YTYH601 | 600 | 100 | 0.1 | 2000 |
| CB05YTYH102 | 1000 | 100 | 0.12 | 1500 |

| Electrical Characteristics – CB04 High Current | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB04YTYH190 | 19 | 100 | 0.015 | 6000 |
| CB04YTYH320 | 32 | 100 | 0.015 | 4000 |
| CB04YTYH500 | 50 | 100 | 0.02 | 4000 |
| CB04YTYH800 | 80 | 100 | 0.025 | 3000 |
| CB04YTYH101 | 100 | 100 | 0.03 | 2500 |
| CB04YTYH301 | 300 | 100 | 0.06 | 2000 |
| CB04YTYH601 | 600 | 100 | 0.1 | 1800 |
| CB04YTYH102 | 1000 | 50 | 0.15 | 1200 |
| CB04YTYH122 | 1200 | 50 | 0.18 | 1000 |
| CB04YTYH152 | 1500 | 50 | 0.2 | 800 |

| Electrical Characteristics – CB10 High Current | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB10YTYH600 | 60 | 100 | 0.025 | 4000 |
| CB10YTYH900 | 90 | 100 | 0.025 | 3000 |

| Electrical Characteristics – CB08 High Current | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB08YTYH500 | 50 | 100 | 0.02 | 6000 |
| CB08YTYH600 | 60 | 100 | 0.02 | 5000 |
| CB08YTYH800 | 80 | 100 | 0.025 | 4000 |
| CB08YTYH151 | 150 | 100 | 0.1 | 2000 |

| Electrical Characteristics – CB12 High Current | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB12YTYH700 | 70 | 100 | 0.03 | 6000 |
| CB12YTYH121 | 120 | 100 | 0.03 | 4000 |

| Electrical Characteristics – CB02 High Speed | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB02YTQN060 | 6 | 100 | 0.1 | 300 |
| CB02YTQN100 | 10 | 100 | 0.2 | 200 |
| CB02YTQN400 | 40 | 100 | 0.4 | 150 |
| CB02YTQN800 | 80 | 100 | 0.6 | 100 |
| CB02YTQN121 | 120 | 100 | 0.8 | 50 |

| Electrical Characteristics – CB03 High Speed | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB03YTQN060 | 6 | 100 | 0.05 | 500 |
| CB03YTQN100 | 10 | 100 | 0.07 | 400 |
| CB03YTQN400 | 40 | 100 | 0.3 | 300 |
| CB03YTQN600 | 60 | 100 | 0.3 | 300 |
| CB03YTQN800 | 80 | 100 | 0.4 | 300 |
| CB03YTQN121 | 120 | 100 | 0.4 | 300 |
| CB03YTQN241 | 240 | 100 | 0.4 | 200 |
| CB03YTQN301 | 300 | 100 | 0.5 | 200 |
| CB03YTQN481 | 480 | 100 | 0.6 | 150 |
| CB03YTQN601 | 600 | 100 | 0.6 | 100 |
| CB03YTQN102 | 1000 | 100 | 0.7 | 100 |
| CB03YTQN122 | 1200 | 100 | 0.7 | 100 |
| CB03YTQN152 | 1500 | 100 | 0.8 | 100 |
| CB03YTQN182 | 1800 | 100 | 0.95 | 100 |

| Electrical Characteristics – CB05 High Speed | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB05YTQN060 | 6 | 100 | 0.07 | 800 |
| CB05YTQN110 | 11 | 100 | 0.1 | 700 |
| CB05YTQN260 | 26 | 100 | 0.2 | 600 |
| CB05YTQN320 | 32 | 100 | 0.2 | 600 |
| CB05YTQN600 | 60 | 100 | 0.3 | 500 |
| CB05YTQN750 | 75 | 100 | 0.3 | 500 |
| CB05YTQN900 | 90 | 100 | 0.3 | 500 |
| CB05YTQN121 | 120 | 100 | 0.4 | 400 |
| CB05YTQN151 | 150 | 100 | 0.4 | 400 |
| CB05YTQN171 | 170 | 100 | 0.5 | 400 |
| CB05YTQN221 | 220 | 100 | 0.5 | 300 |
| CB05YTQN301 | 300 | 100 | 0.5 | 300 |
| CB05YTQN401 | 400 | 100 | 0.5 | 300 |
| CB05YTQN501 | 500 | 100 | 0.5 | 200 |
| CB05YTQN601 | 600 | 100 | 0.5 | 200 |
| CB05YTQN102 | 1000 | 100 | 0.6 | 100 |
| CB05YTQN122 | 1200 | 100 | 0.7 | 100 |
| CB05YTQN152 | 1500 | 100 | 0.7 | 100 |
| CB05YTQN222 | 2200 | 100 | 0.75 | 100 |
| CB05YTQN272 | 2700 | 100 | 0.85 | 100 |

| Electrical Characteristics – CB04 High Speed | | | | |
|--|---------------|-----------------|-------------|---------------|
| Part Number | Impedance (Ω) | Test Freq (MHz) | DCR (Ω) Max | I DC (mA) Max |
| CB04YTQN320 | 32 | 100 | 0.2 | 600 |
| CB04YTQN600 | 60 | 100 | 0.3 | 500 |
| CB04YTQN800 | 80 | 100 | 0.3 | 500 |
| CB04YTQN900 | 90 | 100 | 0.3 | 500 |
| CB04YTQN121 | 120 | 100 | 0.4 | 400 |
| CB04YTQN151 | 150 | 100 | 0.4 | 400 |
| CB04YTQN201 | 200 | 100 | 0.5 | 300 |
| CB04YTQN221 | 220 | 100 | 0.5 | 300 |
| CB04YTQN351 | 350 | 100 | 0.6 | 300 |
| CB04YTQN401 | 400 | 100 | 0.6 | 300 |
| CB04YTQN601 | 600 | 100 | 0.8 | 300 |
| CB04YTQN122 | 1200 | 100 | 1 | 200 |
| CB04YTQN152 | 1500 | 100 | 1.2 | 150 |