# Board Level Products

## HI2220P601R-10 (Part number example in **BOLD**)

| HI | 2220 | P | 601 | R | -10 |
|---|---|---|---|---|---|
| **Product Series Code** | **Part Size Code** | **Rated Continuous Current Code** | **Impedance ( Z ) or Inductance ( L ) Value Code** | **Packaging Code** | **Addtional Description** |
| **HI = High Current Chip Beads (≥3,000 mA)**<br>MI = Mid Current Chip Beads (≥1,000 mA to <3,000 mA)<br>LI = Low Current Chip Beads (<1,000 mA, <400 W Z)<br>HZ = High Impedance Chip Beads (<1,000 mA, ≥400 W Z)<br>HF = High Frequency Chip Beads<br>LF = Low Frequency Chip Beads<br>HR = High Bias Retention Chip Beads (>3,000 mA)<br>CC = CAN-Bus Common Mode<br>CM = Common Mode<br>DI = Power Inductor<br>DA = Multiline Array Chip<br>IC = Chip Inductor | 0402<br>0603<br>0805<br>1206<br>1210<br>1612<br>1806<br>1812<br>1922<br>2021<br>**2220**<br>2520<br>2545<br>2722<br>3032<br>3312<br>3322<br>3421<br>3822<br>4545<br>4732<br>5022<br>5441<br>6032 | A ≤ 100 mA<br>B = 200 mA<br>C = 300 mA<br>D = 400 mA<br>E = 500 mA<br>F = 600 mA<br>G = 700 mA<br>H = 800 mA<br>I = 900 mA<br>J = 1,000 mA<br>K = 1,500 mA<br>L = 2,000 mA<br>M = 2,500 mA<br>N = 3,000 mA<br>O = 3,500 mA<br>**P = 4,000 mA**<br>Q = 4,500 mA<br>R = 5,000 mA<br>S = 5,500 mA<br>T = 6,000 mA<br>U = 7,000 mA<br>V = 8,000 mA<br>W = 9,000 mA<br>X = 10,000 mA<br>Y = 15,000 mA<br>Z ≥ 20,000 mA | First two numbers are Significant Digits. The last number indicates how many zeros are added to the significant digits for impedance.<br><br>Impedance Examples<br><br>100 = 10 OHMS<br>101 = 100 OHMS<br>102 = 1,000 OHMS<br>202 = 2,000 OHMS<br>060 = 6 OHMS<br>600 = 60 OHMS<br>**601 = 600 OHMS**<br><br>Inductance Examples<br><br>470 = 47 nH<br>471 = 470 nH<br>472 = 4,700 nH<br>473 = 47,000 nH<br>474 = 470,000 nH<br>475 = 4,700,000 nH | B = Bulk Standard Thru-Hole Packaging<br><br>**R = Tape & Reel** Standard SMT Package | 00 = Legacy Part Contains Lead<br><br>**-10 = Lead Free Standard Catalog Part**<br><br>-11 to -99 = Non Standard or Custom Part |

## 29F0818-1SR-10 (Part number example in **BOLD**)

| 29 | F | 0818 | -1 | S | R | -10 |
|---|---|---|---|---|---|---|
| **Material Type** | **Product Type Code** | **Part Size Code** | **Minor Dimension Code** | **Board Mounting Style** | **Packaging Code** | **Additional Part Description** |
| **28 & 29 = Broad Band Material**<br><br>35 = Low Frequency Material | C = Choke<br>L = Axial Leaded Bead<br>**F = Assembled Part**<br>J = Radial Leaded Bead | Unique Part Identifier or Significant Dimension | Height or Length Variation | **S = Surface Mount**<br>T = Thru-Hole | O = Bulk Standard<br><br>**R = Tape & Reel** Standard SMT Package | **-10 = Lead Free Standard Catalog Part**<br><br>-11 to -99 = Non Standard or Custom Part |

# Ferrite Cable Core Products

**28B0250-100** (Part number example in **BOLD**)

| 28 | B | 0250 | -1 | 0 | 0 |
|---|---|---|---|---|---|
| **Material Type** | **Product Type Code** | **Part Size Code** | **Selected Dimension Code** | **Addtional Part Description** | **Additional Part Description** |
| 28 = **Broad Band Material**<br><br>HF =High Frequency Material<br><br>LF = Low Frequency Material | A = Split round cores (Snap-Ons)<br><br>B = **Round Cylindrical Cores**<br><br>R = Ribbon Cable Cores<br><br>S = Split Ribbon Cores | 28 material is usually measured in inches for OD.<br><br>HF & LF Material OD & ID is usually measured in mm. | Usually Length | 0 = **Standard Part**<br><br>**"A" Product Type Code**<br>A = Plastic Case<br>B = Plastic Case<br><br>**"S" Product Type Code**<br>0 = No Clip<br>M = Metal Clip<br>P = Plastic Clip<br>A = Hinged Plastic Case | 0 = **Standard Part**<br><br>**"A" Product Type Code**<br>0 = White Case<br>2 = Black Case |

# FERRITE MATERIAL COMPARISON

## LF, 28, HF Material Impedance vs Frequency ( 300 KHz - 2 GHz )

## Impedance Materials for Cable & Wiring Harness Cores

