

## 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                                                                                             | Additional Description                                                                                                                                  |
| <b>HI</b> = High Current Chip Beads (≥3,000 mA)<br><b>MI</b> = Mid Current Chip Beads (≥1,000 mA to <3,000 mA)<br><b>LI</b> = Low Current Chip Beads (<1,000 mA, <400 W Z)<br><b>HZ</b> = High Impedance Chip Beads (<1,000 mA, ≥400 W Z)<br><b>HF</b> = High Frequency Chip Beads<br><b>LF</b> = Low Frequency Chip Beads<br><b>HR</b> = High Bias Retention Chip Beads (>3,000 mA)<br><b>CC</b> = CAN-Bus Common Mode<br><b>CM</b> = Common Mode<br><b>DI</b> = Power Inductor<br><b>DA</b> = Multiline Array Chip<br><b>IC</b> = Chip Inductor | 0402<br>0603<br>0805<br>1206<br>1210<br>1612<br>1806<br>1812<br>1922<br>2021<br><b>2220</b><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 | <b>A</b> ≤ 100 mA<br><b>B</b> = 200 mA<br><b>C</b> = 300 mA<br><b>D</b> = 400 mA<br><b>E</b> = 500 mA<br><b>F</b> = 600 mA<br><b>G</b> = 700 mA<br><b>H</b> = 800 mA<br><b>I</b> = 900 mA<br><b>J</b> = 1,000 mA<br><b>K</b> = 1,500 mA<br><b>L</b> = 2,000 mA<br><b>M</b> = 2,500 mA<br><b>N</b> = 3,000 mA<br><b>O</b> = 3,500 mA<br><b>P</b> = <b>4,000 mA</b><br><b>Q</b> = 4,500 mA<br><b>R</b> = 5,000 mA<br><b>S</b> = 5,500 mA<br><b>T</b> = 6,000 mA<br><b>U</b> = 7,000 mA<br><b>V</b> = 8,000 mA<br><b>W</b> = 9,000 mA<br><b>X</b> = 10,000 mA<br><b>Y</b> = 15,000 mA<br><b>Z</b> ≥ 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><b>100</b> = 10 OHMS<br><b>101</b> = 100 OHMS<br><b>102</b> = 1,000 OHMS<br><b>202</b> = 2,000 OHMS<br><b>060</b> = 6 OHMS<br><b>600</b> = 60 OHMS<br><b>601</b> = <b>600 OHMS</b><br><br>Inductance Examples<br><b>470</b> = 47 nH<br><b>471</b> = 470 nH<br><b>472</b> = 4,700 nH<br><b>473</b> = 47,000 nH<br><b>474</b> = 470,000 nH<br><b>475</b> = 4,700,000 nH | <b>B</b> = Bulk Standard Thru-Hole Packaging<br><br><b>R</b> = <b>Tape &amp; Reel</b> Standard SMT Package | <b>00</b> = Legacy Part Contains Lead<br><br><b>-10</b> = <b>Lead Free Standard Catalog Part</b><br><br><b>-11 to -99</b> = 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                                                                                |
| <b>28 &amp; 29</b> = Broad Band Material<br><br><b>35</b> = Low Frequency Material | <b>C</b> = Choke<br><b>L</b> = Axial Ledged Bead<br><b>F</b> = <b>Assembled Part</b><br><b>J</b> = Radial Ledged Bead | Unique Part Identifier or Significant Dimension | Height or Length Variation | <b>S</b> = <b>Surface Mount</b><br><b>T</b> = Thru-Hole | <b>O</b> = Bulk Standard<br><br><b>R</b> = <b>Tape &amp; Reel</b> Standard SMT Package | <b>-10</b> = <b>Lead Free Standard Catalog Part</b><br><br><b>-11 to -99</b> = Non Standard or Custom Part |

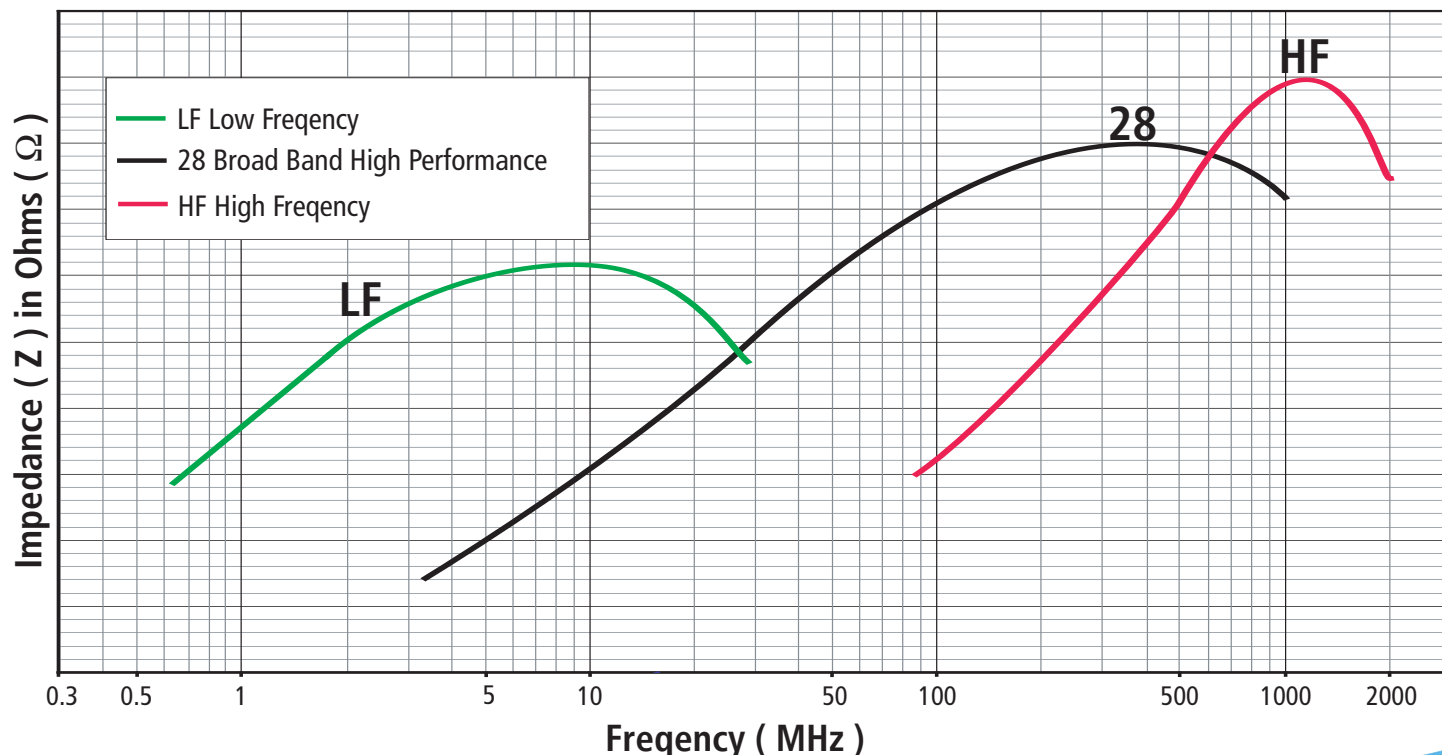
## Ferrite Cable Core Products

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

| 28                                                                                                                   | B                                                                                                                                                           | 0250                                                                                                         | -1                      | 0                                                                                                                                                                                                                                                                  | 0                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Material Type                                                                                                        | Product Type Code                                                                                                                                           | Part Size Code                                                                                               | Selected Dimension Code | Additional Part Description                                                                                                                                                                                                                                        | Additional Part Description                                                                                    |
| <b>28 = Broad Band Material</b><br><br><b>HF</b> = High Frequency Material<br><br><b>LF</b> = Low Frequency Material | <b>A</b> = Split round cores (Snap-Ons)<br><br><b>B</b> = Round Cylindrical Cores<br><br><b>R</b> = Ribbon Cable Cores<br><br><b>S</b> = 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          | <b>0 = Standard Part</b><br><br><b>"A" Product Type Code</b><br><b>A</b> = Plastic Case<br><b>B</b> = Plastic Case<br><br><b>"S" Product Type Code</b><br><b>0</b> = No Clip<br><b>M</b> = Metal Clip<br><b>P</b> = Plastic Clip<br><b>A</b> = Hinged Plastic Case | <b>0 = Standard Part</b><br><br><b>"A" Product Type Code</b><br><b>0</b> = White Case<br><b>2</b> = Black Case |

## FERRITE MATERIAL COMPARISON

LF, 28, HF Material Impedance vs Frequency ( 300 KHz - 2 GHz )  
Impedance Materials for Cable & Wiring Harness Cores



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