

# Ferrite EMI Beads with Axial Wire



- Differential Mode EMI Filters
- Lead Free & RoHS Compliant
- High Current
- Thru-Hole application
- Wire Leads Thru Ferrite
- Low DCR



## PART NUMBER SYSTEM EXAMPLE

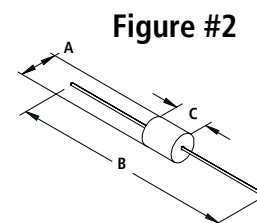
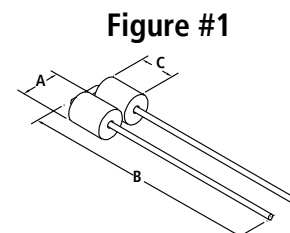
|               |              |                |                         |                        |                |                        |
|---------------|--------------|----------------|-------------------------|------------------------|----------------|------------------------|
| <u>28</u>     | <u>J</u>     | <u>0138</u>    | <u>-1</u>               | <u>1</u>               | <u>R</u>       | <u>-10</u>             |
| Material Type | Product Code | Part Size Code | Selected Dimension Code | Additional Description | Packaging Code | Additional Description |

| Part Number    | TYPICAL IMPEDANCE ( $\Omega$ ) |             |             |           | Typical Peak Impedance ( $\Omega$ ) | Typical Peak Impedance Frequency ( MHz ) | DCR MAX ( $\Omega$ ) | Rated I Max (continuous) mA |
|----------------|--------------------------------|-------------|-------------|-----------|-------------------------------------|--|----------------------|-----------------------------|
|                | Z @ 25 MHz                     | Z @ 100 MHz | Z @ 500 MHz | Z @ 1 GHz |                                     |  |                      |                             |
| 28J0138-11R-10 | 95                             | 143         | 160         | 140       | 165                                 | 300                                      | 0.01                 | 5,000                       |
| 28L0138-10R-10 | 45                             | 75          | 70          | 55        | 80                                  | 200                                      | 0.01                 | 5,000                       |
| 28L0138-40R-10 | 99                             | 135         | 180         | 80        | 138                                 | 200                                      | 0.01                 | 5,000                       |
| 28L0138-50R-10 | 92                             | 153         | 152         | 111       | 161                                 | 150                                      | 0.01                 | 5,000                       |
| 28L0138-70R-10 | 123                            | 220         | 180         | 110       | 220                                 | 100                                      | 0.01                 | 5,000                       |
| 28L0138-80R-10 | 48                             | 86          | 78          | 57        | 85                                  | 100                                      | 0.01                 | 5,000                       |

See diagram 1 on page 48 for equivalent circuit

| Part Number    | Fig # | A mm (inches) | B mm (inches) | C mm (inches) |
|----------------|-------|---------------|---------------|---------------|
| 28J0138-11R-10 | 1     | 3.51 (0.138)  | 25.40 (1.000) | 4.45 (0.175)  |
| 28L0138-10R-10 | 2     | 3.51 (0.138)  | 59.00 (2.323) | 4.45 (0.175)  |
| 28L0138-40R-10 | 2     | 3.51 (0.138)  | 59.00 (2.323) | 8.89 (0.350)  |
| 28L0138-50R-10 | 2     | 3.51 (0.138)  | 59.00 (2.323) | 9.53 (0.375)  |
| 28L0138-70R-10 | 2     | 3.51 (0.138)  | 59.00 (2.323) | 13.97 (0.550) |
| 28L0138-80R-10 | 2     | 3.51 (0.138)  | 59.00 (2.323) | 5.23 (0.206)  |

Refer to part print for additional dimensions



All current ratings (I MAX) are based on continuous operation.  
Chart data can be sorted at [www.lairdtech.com](http://www.lairdtech.com).