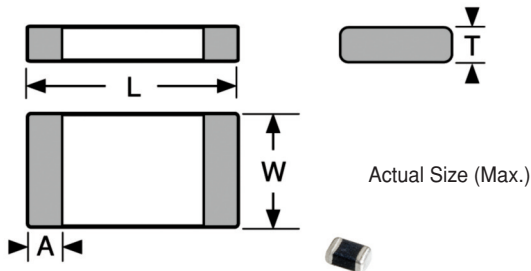
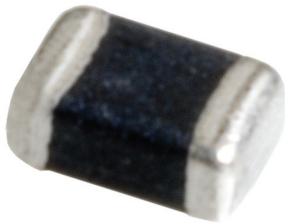


# SERIES

EMI0603R, EMI0805R, EMI1206R,  
EMI1210R, EMI1806R, EMI1812R



Actual Size (Max.)



**Small size** utilizing a monolithic ferrite structure which results in excellent magnetic shielding.

**Operating Temperature Range** -55°C to +125°C

**Terminations** Suitable for flow & reflow soldering application.

**Current Rating** The current at which the Impedance will change by a maximum of  $\pm 25\%$ .

**Note** † Test Frequency for EMI1206R-1500 = 50 MHz

\*\*\* Test Frequency for EMI1206R-2000 = 30 MHz

Additional values available - contact factory for your application

\*Complete part # must include series # PLUS the dash #

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)

| DASH NUMBER*           | IMPEDANCE @ 100 MHz<br>(OHMS) $\pm 25\%$ | DC RESISTANCE<br>MAXIMUM (OHMS) | CURRENT RATING<br>MAXIMUM (mA) |
|------------------------|------------------------------------------|---------------------------------|--------------------------------|
| <b>SERIES EMI0603R</b> |                                          |                                 |                                |
| -60                    | 60                                       | 0.10                            | 600                            |
| -68                    | 68                                       | 0.10                            | 600                            |
| -80                    | 80                                       | 0.10                            | 400                            |
| -120                   | 120                                      | 0.15                            | 400                            |
| -220                   | 220                                      | 0.30                            | 300                            |
| -300                   | 300                                      | 0.35                            | 300                            |
| -450                   | 450                                      | 0.40                            | 300                            |
| -600                   | 600                                      | 0.45                            | 200                            |
| -750                   | 750                                      | 0.60                            | 100                            |
| -1000                  | 1000                                     | 0.60                            | 100                            |
| <b>SERIES EMI0805R</b> |                                          |                                 |                                |
| -11                    | 11                                       | 0.05                            | 600                            |
| -40                    | 40                                       | 0.05                            | 600                            |
| -90                    | 90                                       | 0.10                            | 600                            |
| -120                   | 120                                      | 0.15                            | 500                            |
| -150                   | 150                                      | 0.15                            | 500                            |
| -220                   | 220                                      | 0.22                            | 500                            |
| -300                   | 300                                      | 0.20                            | 500                            |
| -400                   | 400                                      | 0.30                            | 500                            |
| -600                   | 600                                      | 0.30                            | 500                            |
| -1000                  | 1000                                     | 0.35                            | 300                            |
| -1500                  | 1500                                     | 0.40                            | 200                            |
| -2000                  | 2000                                     | 0.50                            | 200                            |
| <b>SERIES EMI1206R</b> |                                          |                                 |                                |
| -31                    | 31                                       | 0.05                            | 600                            |
| -50                    | 50                                       | 0.10                            | 600                            |
| -70                    | 70                                       | 0.10                            | 600                            |
| -90                    | 90                                       | 0.15                            | 500                            |
| -120                   | 120                                      | 0.15                            | 500                            |
| -150                   | 150                                      | 0.15                            | 500                            |
| -200                   | 200                                      | 0.20                            | 500                            |
| -300                   | 300                                      | 0.20                            | 500                            |
| -600                   | 600                                      | 0.30                            | 500                            |
| -800                   | 800                                      | 0.30                            | 200                            |
| -1000                  | 1000                                     | 0.40                            | 200                            |
| -1200                  | 1200                                     | 0.40                            | 200                            |
| -1500†                 | 1500                                     | 0.50                            | 200                            |
| -2000***               | 2000                                     | 0.50                            | 200                            |
| <b>SERIES EMI1210R</b> |                                          |                                 |                                |
| -60                    | 60                                       | 0.30                            | 400                            |
| <b>SERIES EMI1806R</b> |                                          |                                 |                                |
| -80                    | 80                                       | 0.10                            | 400                            |
| -105                   | 100                                      | 0.20                            | 300                            |
| -150                   | 150                                      | 0.30                            | 200                            |
| <b>SERIES EMI1812R</b> |                                          |                                 |                                |
| -125                   | 120                                      | 0.40                            | 200                            |

## Physical Parameters and Packaging

|                    | EMI0603R                                            | EMI0805R                                | EMI1206R                                | EMI1210R                                | EMI1806R                                | EMI1812R                                |
|--------------------|-----------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
| <b>Dimensions</b>  |                                                     |                                         |                                         |                                         |                                         |                                         |
| L - inches<br>(mm) | 0.063 $\pm$ 0.006<br>(1.6 $\pm$ 0.15)               | 0.079 $\pm$ 0.008<br>(2.0 $\pm$ 0.2)    | 0.126 $\pm$ 0.008<br>(3.2 $\pm$ 0.2)    | 0.126 $\pm$ 0.008<br>(3.2 $\pm$ 0.2)    | 0.177 $\pm$ 0.010<br>(4.5 $\pm$ 0.25)   | 0.177 $\pm$ 0.010<br>(4.5 $\pm$ 0.25)   |
| W - inches<br>(mm) | 0.031 $\pm$ 0.006<br>(0.8 $\pm$ 0.15)               | 0.049 $\pm$ 0.008<br>(1.25 $\pm$ 0.2)   | 0.063 $\pm$ 0.008<br>(1.6 $\pm$ 0.2)    | 0.098 $\pm$ 0.008<br>(2.5 $\pm$ 0.2)    | 0.063 $\pm$ 0.008<br>(1.6 $\pm$ 0.2)    | 0.126 $\pm$ 0.010<br>(3.2 $\pm$ 0.25)   |
| T - inches<br>(mm) | 0.031 $\pm$ 0.006<br>(0.8 $\pm$ 0.15)               | 0.035 $\pm$ 0.008<br>(0.9 $\pm$ 0.2)    | 0.043 $\pm$ 0.008<br>(1.1 $\pm$ 0.2)    | 0.051 $\pm$ 0.008<br>(1.3 $\pm$ 0.2)    | 0.063 $\pm$ 0.008<br>(1.6 $\pm$ 0.2)    | 0.059 $\pm$ 0.010<br>(1.5 $\pm$ 0.25)   |
| A - inches<br>(mm) | 0.012 $\pm$ 0.008<br>(0.3 $\pm$ 0.20)               | 0.020 $\pm$ 0.012<br>(0.50 $\pm$ 0.300) | 0.020 $\pm$ 0.012<br>(0.50 $\pm$ 0.300) | 0.020 $\pm$ 0.012<br>(0.50 $\pm$ 0.300) | 0.022 $\pm$ 0.016<br>(0.60 $\pm$ 0.400) | 0.022 $\pm$ 0.016<br>(0.60 $\pm$ 0.400) |
| <b>Packaging</b>   | Tape & reel (12mm); max. pieces per reel as follows |                                         |                                         |                                         |                                         |                                         |
|                    | 4000                                                | 4000                                    | 3000                                    | 2000                                    | 2000                                    | 1000                                    |