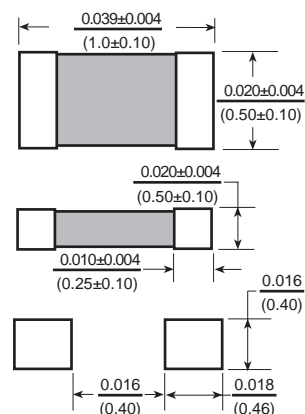


Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



| Allied Part Number | Impedance ( $\Omega$ ) @ 100 MHz +/- 25% | DC Resistance ( $\Omega$ ) Max. | *Rated Current (mA) |
|--------------------|--|---------------------------------|---------------------|
| MLB03-100-RC       | 10                                       | 0.05                            | 500                 |
| MLB03-400-RC       | 40                                       | 0.20                            | 500                 |
| MLB03-600-RC       | 60                                       | 0.20                            | 500                 |
| MLB03-700-RC       | 70                                       | 0.20                            | 500                 |
| MLB03-101-RC       | 100                                      | 0.25                            | 500                 |
| MLB03-121-RC       | 120                                      | 0.25                            | 500                 |
| MLB03-221-RC       | 220                                      | 0.40                            | 400                 |
| MLB03-301-RC       | 300                                      | 0.50                            | 300                 |
| MLB03-471-RC       | 470                                      | 0.50                            | 300                 |
| MLB03-601-RC       | 600                                      | 0.60                            | 300                 |
| MLB03-102-RC       | 1000                                     | 0.95                            | 200                 |
| MLB03-182-RC       | 1800                                     | 1.40                            | 100                 |
| MLB03-222-RC       | 2200                                     | 1.40                            | 100                 |

\*Temperature rise  $\Delta T=30^{\circ}\text{C}$  at rated current.  
All specifications subject to change without notice.

### Features

- Surface mount EMI suppression components
- Nickel barrier termination for excellent resistance to solder heat
- Multi layer technology
- Flow and reflow soldering

### Electrical

**Impedance Range:** 10 $\Omega$  to 2200 $\Omega$

**Tolerance:** 25% over entire range

**Operating Range:** -55 $^{\circ}\text{C}$  ~ +125 $^{\circ}\text{C}$

**Storage Temp:** Under 25 $^{\circ}\text{C}$  at 40~60% Humidity

**Rated Current:** Based on temp rise not to exceed 30 $^{\circ}\text{C}$

### Resistance to Solder Heat

Pre-Heat 150 $^{\circ}\text{C}$ , 1 minute

Solder Composition: Sn/Ag3.0/Cu0.5

Solder Temp: 260 $\pm$ 5 $^{\circ}\text{C}$  for 10sec  $\pm$ 1 sec.

Minimum of 75% of Electrode covered with new solder.

Impedance within 30% of initial value.

### Test Equipment

(Z): HP4291A RF Impedance/Material Analyzer

(RDC): Chen Hwa 502BC

### Physical

**Packaging:** 10000 per 7 inch reel.

**Marking:** None