



Click [here](#) for the 3D model.

## General Information

|               |                              |
|---------------|------------------------------|
| Series        | MPX                          |
| Style         | SMD Molded                   |
| Core          | Metal Composite              |
| Description   | Surface Mount Inductor       |
| Features      | Power Inductors              |
| RoHS          | Yes                          |
| Miscellaneous | 40 (K) Temperature Rise Max. |

## Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0840(3431)       |
| L         | 8.65mm +/-0.25mm |
| W         | 8mm +/-0.2mm     |
| T         | 4mm MAX          |
| G         | 5.1mm +/-0.3mm   |

## Packaging Specifications

|                          |            |
|--------------------------|------------|
| Typical Component Weight | 1.45 g     |
| Packaging                | T&R, 330mm |
| Packaging Quantity       | 1000       |

## Specifications

|                         |  |
|-------------------------|--|
| Inductance              | 47 uH (0.1 MHz)  |
| Inductance Tolerance    | 20%  |
| Rated Current           | 2.8 A (Irms, 40C Rise By Self Heating)                                     |
| Saturation Current      | 2.5 A (Isat, 20% Drop In Inductance), 3.5 A (Isat, 30% Drop In Inductance) |
| Temperature Range       | -55/+155°C   |
| Shielded                | Yes  |
| DC Resistance           | 226.7 mOhms  |
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| Self-Resonant Frequency | 5.7 MHz  |

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