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#### General Information

|                |                              |
|----------------|------------------------------|
| Series         | MPXV                         |
| Style          | SMD Molded                   |
| Core           | Metal Composite              |
| Description    | Surface Mount Inductor       |
| Features       | Power Inductors              |
| RoHS           | Yes                          |
| Qualifications | AEC-Q200                     |
| AEC-Q200       | Yes                          |
| Miscellaneous  | 40 (K) Temperature Rise Max. |

#### Specifications

|                         |  |
|-------------------------|--|
| Inductance              | 47 uH (100 kHz)  |
| Inductance Tolerance    | 20%  |
| Rated Current           | 3 A (Irms, 40C Rise By Self Heating)                                   |
| Saturation Current      | 3 A (Isat, 20% Drop In Inductance), 4 A (Isat, 30% Drop In Inductance) |
| Temperature Range       | -55/+155°C   |
| Shielded                | Yes  |
| DC Resistance           | 182.6 mOhms  |
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| Self-Resonant Frequency | 4.5 MHz  |

#### Dimensions

|           |                 |
|-----------|-----------------|
| Chip Size | 1040(4340)      |
| L         | 10.8mm +/-0.3mm |
| W         | 10mm +/-0.2mm   |
| T         | 4mm MAX         |
| G         | 3mm +/-0.3mm    |

#### Packaging Specifications

|                          |            |
|--------------------------|------------|
| Typical Component Weight | 2.2 g      |
| Packaging                | T&R, 330mm |
| Packaging Quantity       | 500        |

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