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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. |

#### Dimensions

|           |                  |
|-----------|------------------|
| Chip Size | 0830(3431)       |
| L         | 8.65mm +/-0.25mm |
| W         | 8mm +/-0.2mm     |
| T         | 3mm MAX          |
| G         | 5.1mm +/-0.3mm   |

#### Packaging Specifications

|                          |            |
|--------------------------|------------|
| Typical Component Weight | 1.07 g     |
| Packaging                | T&R, 330mm |
| Packaging Quantity       | 1500       |

#### Specifications

|                         |   |
|-------------------------|---|
| Inductance              | 4.7 uH (100 kHz)  |
| Inductance Tolerance    | 20%   |
| Rated Current           | 7.7 A (Irms, 40C Rise By Self Heating)                                      |
| Saturation Current      | 7.5 A (Isat, 20% Drop In Inductance), 10.5 A (Isat, 30% Drop In Inductance) |
| Temperature Range       | -55/+155°C  |
| Shielded                | Yes   |
| DC Resistance           | 29.7 mOhms  |
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| Self-Resonant Frequency | 18 MHz  |

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