



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

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 | 1 uH (100 kHz) |
| Inductance Tolerance | 20% |
| Rated Current | 17.6 A (Irms, 40C Rise By Self Heating) |
| Saturation Current | 16 A (Isat, 20% Drop In Inductance), 23 A (Isat, 30% Drop In Inductance) |
| Temperature Range | -55/+155°C |
| Shielded | Yes |
| DC Resistance | 5.7 mOhms |
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| Self-Resonant Frequency | 46 MHz |

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