



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 | 1770(6868) |
| L | 17mm +/-0.5mm |
| W | 17.1mm +/-0.5mm |
| T | 7mm MAX |
| G | 11.9mm NOM |

Packaging Specifications

| | |
|--------------------------|------------|
| Typical Component Weight | 11 g |
| Packaging | T&R, 330mm |
| Packaging Quantity | 100 |

Specifications

| | |
|-------------------------|---|
| Inductance | 0.47 uH (100 kHz) |
| Inductance Tolerance | 20% |
| Rated Current | 52.5 A (I _{rms} , 40C Rise By Self Heating) |
| Saturation Current | 72 A (I _{sat} , 20% Drop In Inductance), 108 A (I _{sat} , 30% Drop In Inductance) |
| Temperature Range | -55/+155°C |
| Shielded | Yes |
| DC Resistance | 1 mOhms |
| DC Resistance | 1 mOhms |
| Self-Resonant Frequency | 45 MHz |

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