


 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**

|   |                 |
|---|-----------------|
| L | 13.2mm +/-0.4mm |
| W | 12.5mm +/-0.2mm |
| T | 6.4mm MAX       |
| G | 4.7mm +/-0.3mm  |

**Specifications**

|                         |                                                                          |
|-------------------------|--------------------------------------------------------------------------|
| Inductance              | 10 uH (100 kHz)                                                          |
| Inductance Tolerance    | 20%                                                                      |
| Rated Current           | 12.2 A (Irms, 40C Rise By Self Heating)                                  |
| Saturation Current      | 10 A (Isat, 20% Drop In Inductance), 14 A (Isat, 30% Drop In Inductance) |
| Temperature Range       | -55/+155°C                                                               |
| Shielded                | Yes                                                                      |
| DC Resistance           | 16.1 mOhms                                                               |
| DC Resistance           | 16.1 mOhms                                                               |
| Self-Resonant Frequency | 8.5 MHz                                                                  |

**Packaging Specifications**

|                          |            |
|--------------------------|------------|
| Typical Component Weight | 5.5 g      |
| Packaging                | T&R, 330mm |
| Packaging Quantity       | 250        |

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