**SMD Shielded Power Inductor**

**PCSM25A8S**

- Magnetically Shielded Construction
- High Saturation current for its size.
- Low DC Resistance
- Small Foot Print 1008 Package
- Low Profile 1.2Max Ht.

**Electrical**

- **Inductance Range**: 0.33µh to 2.2µh
- **Tolerance**: ±20% over the entire range
- **Test Frequency**: 2MHz, 0.2V
- **Operating Temp. Range**: -40°C to +125°C
- **Storage Temp.**: -55°C to +125°C
- **Irms**: DC Current at which the ∆T=40°C
- **Isat**: DC Current at which the inductance will drop approximately 30%
- Part temperature should not exceed 125°C including temperature rise.

**Resistance to Soldering Heat**

- **Pre-Heat**: 150°C, 1 Min.
- **Solder Composition**: SnAg3.0/Cu0.5)
- **Solder Temp.**: 260°C +/-5 °C
- **Immersion Time**: 10 Sec. +/- 1 sec.

**Test Equipment**

- **(L)**: Agilent E4991A/HP 4287A+16197A
- **DCR**: Chen HWA502
- **Isat**: Agilent E4980A+HP42841A
- **Irms**: Agilent 6641 System DC Power Supply

**Physical**

- **Packaging**: 3000 pieces per 7 inch reel
- **Marking**: None

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<table>
<thead>
<tr>
<th>Allied Part Number</th>
<th>Inductance (µh)</th>
<th>Tolerance (%)</th>
<th>Test Frequency (MHz, 0.2V)</th>
<th>DCR mΩ Max.</th>
<th>Isat (A) Max.</th>
<th>Irms (A) Max.</th>
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All specifications subject to change without notice.