SRP2510TMA Series - Shielded Power Inductors

RoHS compliant, **halogen free & AEC-Q200 compliant**

Electrical Specifications @ 25 °C

<table>
<thead>
<tr>
<th>Bourns Part No.</th>
<th>Inductance @ 1 MHz / 1 V L (μH)</th>
<th>Tol. %</th>
<th>Q @ 1 MHz Typ.</th>
<th>SRF (MHz) Typ.</th>
<th>DCR (mΩ) Typ.</th>
<th>DCR (mΩ) Max.</th>
<th>Irms (A) Typ.</th>
<th>Isat (A) Typ.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRP2510TMA-R22M</td>
<td>0.22</td>
<td>20</td>
<td>15</td>
<td>150</td>
<td>12</td>
<td>15</td>
<td>7.2</td>
<td>7.7</td>
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<tr>
<td>SRP2510TMA-R33M</td>
<td>0.33</td>
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<td>15</td>
<td>110</td>
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<td>19</td>
<td>6.6</td>
<td>7.2</td>
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<td>SRP2510TMA-R47M</td>
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<td>15</td>
<td>85</td>
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<td>24</td>
<td>5.8</td>
<td>5.1</td>
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<td>SRP2510TMA-R68M</td>
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<td>30</td>
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<tr>
<td>SRP2510TMA-1R0M</td>
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<td>SRP2510TMA-1R5M</td>
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<td>SRP2510TMA-2R2M</td>
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<td>85</td>
<td>102</td>
<td>2.8</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Additional Information

Click these links for more information:

- **PRODUCT SELECTOR**
- **TECHNICAL LIBRARY**
- **INVENTOR**
- **SAMPLES**
- **CONTACT**

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**Features**
- Compact size
- Shielded construction for low radiation
- Metal alloy powder core for high saturation current
- Flat wire
- Low DCR
- Wide range of operating temperatures
- AEC-Q200 compliant
- RoHS compliant* and halogen free**

**Additional Information**

**General Specifications**

- Operating Temperature: -55 °C to +150 °C (Temperature rise included)
- Storage Temperature (Component): -55 °C to +150 °C
- Temperature Rise: 40 °C at rated Irms
- Rated Current: Inductance drops 30% at Isat
- Moisture Sensitivity Level: 1
- ESD Classification (HBM): N/A

**Materials**

- Core: Metal alloy powder
- Wire: Enameled copper
- Terminal Finish: Ni/Sn
- Packaging: 2000 pcs. per 7-inch reel

**How to Order**

Model: SRP2510TMA - 1R0M

Value Code (see table)

**Soldering Profile**

- Preheat: - Temperature Min. (T_{smin}): 150 °C
  - Temperature Max. (T_{smax}): 200 °C
  - Time(t_s) from T_{smin} to T_{smax}: 60-120 seconds
- Ramp-up Rate (T_L to T_p): 3 °C/second max.
- Liquidus temperature (T_L): 217 °C
  - Time (t_L) maintained above T_L: 60-150 seconds
- Peak package body temperature (T_p): 260 °C
- Time within 5 °C of Actual Peak Temperature (t_p): < 30 seconds
- Ramp-Down Rate (T_p to T_L): 6 °C/second max.
- Time 25 °C to Peak Temperature: 8 minutes max.

**WARNING**

Cancer and Reproductive Harm

[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

** Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.
SRP2510TMA Series - Shielded Power Inductors

L vs. I Charts

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包装规格

用户方向的馈电

QTY: 2000 PCS. PER REEL

SRP2510TMA系列 - 屏蔽功率电感器

包装规格

尺寸：

- DIA. 8.0 ± 0.1 (0.315 ± 0.004)
- DIA. 3.5 ± 0.1 (0.138 ± 0.004)
- DIA. 2.9 ± 0.1 (0.114 ± 0.004)
- DIA. 8.4 ± 1.5/-0 (0.331 ± 0.059/-0)
- DIA. 178 ± 2.0 (7 ± 0.079)

- 12 ± 5/0.2 (0.512 ± 0.008)
- 50 (1.969) MIN.

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05/22

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