


MATERIAL DECLARATION



| | | | | |
|-----------------|-----------------------------|-----|---|---|
| Material Number | SRR0603 Series | | |  |
| Product Line | Shielded SMD Power Inductor | | | |
| Compliance Date | June-1-2004 | | | |
| RoHS Compliant | YES | MSL | 1 | |

| No. | Construction Element(subpart) | Homogeneous Material | Material weight [g] | Homogeneous Material\ Substances | CASRN if applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-------------|-------------------------------|----------------------|---------------------|--|---------------------|------------------|-----------------------------------|-------------------------------|
| 1 | DR CORE +RI CORE | Ferrite Core | 0.279 | Iron oxide (Fe ₂ O ₃) | 1309-37-1 | 60.0% | 40.83 | 68.05 |
| | | | | Zinc oxide (ZnO) | 1314-13-2 | 20.0% | 13.61 | |
| | | | | Cupric oxide(CuO) | 1317-38-0 | 10.0% | 6.80 | |
| | | | | Nickel oxide (NiO) | 1313-99-1 | 10.0% | 6.80 | |
| 2 | Wire | Copper Wire | 0.035 | Copper (Cu) | 7440-50-8 | 95.0 | 8.11 | 8.54 |
| | | | | Polyester Resin | 9009-54-5 | 5.0 | 0.43 | |
| 3 | Base | LCP | 0.070 | Aromatic polyester resin | 60088-52-0 | 100.0 | 17.07 | 17.07 |
| | | Copper | 0.002 | Copper (Cu) | 7440-50-8 | 93.6 | 0.46 | 0.49 |
| | | | | Tin (Sn) | 7440-31-5 | 6.2 | 0.03 | |
| | | | | Phosphorus (P) | 7723-14-0 | 0.2 | 0.00 | |
| | | Plating | 0.001 | Tin (Sn) | 7440-31-5 | 80.0 | 0.20 | 0.24 |
| Nickel (Ni) | 7440-02-0 | | | 20.0 | 0.05 | | | |
| 4 | Adhesive | Resin | 0.012 | Epoxy Resin | 25085-99-8 | 50.0% | 1.46 | 2.93 |
| | | | | Dicyandiamide | 461-58-5 | 15.0% | 0.23 | |
| | | | | Carbonate | 471-34-1 | 35.0% | 1.02 | |
| 5 | Adhesive | Resin | 0.003 | Bisphenol A Epoxy Resin | 25068-38-6 | 59.0% | 0.43 | 0.73 |
| | | | | 2-Methyl Imidazole | 693-98-1 | 14.0% | 0.07 | |
| | | | | Carbon Black | 1333-86-4 | 5.0% | 0.04 | |
| | | | | Aluminum Hydroxide | 21645-51-2 | 22.0% | 0.16 | |

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|---|----------|--------------|-------------|--------------------------|------------|-------|------|------|
| 6 | Adhesive | Resin | 0.003 | Bis-phenol A Epoxy Resin | 25068-38-6 | 62.0% | 0.45 | 0.73 |
| | | | | Calcium Carbonate | 1317-65-3 | 33.0% | 0.24 | |
| | | | | Thermoplastic copolymer | 75701-44-9 | 5.0% | 0.03 | |
| 7 | Solder | Tin | 0.005 | Tin (Sn) | 7440-31-5 | 100.0 | 1.22 | 1.22 |
| | | Total weight | 0.41 | | | | | |

This Document was updated on: 2016/03/23

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.