

MATERIAL DECLARATION SHEET

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|-----------------|------------------------|-----|---------|--|
| Material Number | SRF2012A Series | | | |
| Product Line | Common Mode Choke Coil | | | |
| Compliance Date | 2024/04/12 | | | |
| RoHS Compliant | Yes | MSL | Level 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 | Ferrite body | Ferrite Ni-Zn Series | 0.00924 | Ferric oxide | 1309-37-1 | 62.000 | 47.740 | 77.00 |
| | | | | Nickel oxide | 1313-99-1 | 11.000 | 8.470 | |
| | | | | Zinc oxide | 1314-13-2 | 20.000 | 15.400 | |
| | | | | Copper oxide | 1317-38-0 | 7.000 | 5.390 | |
| 2 | Copper/ Coating | Copper Wire | 0.00144 | Copper | 7440-50-8 | 100.000 | 12.000 | 15.00 |
| | | Copper Colored Coating On The Magnet Wire | 0.00036 | Polyurethane Resin | 26680-22-8 | 100.000 | 3.000 | |
| 3 | Terminal | Silver paste | 0.00036 | Silver | 7440-22-4 | 73.700 | 2.211 | 3.00 |
| | | | | Silicon dioxide | 60676-86-0 | 15.800 | 0.474 | |
| | | | | Resins | 9004-57-3 | 10.500 | 0.315 | |
| 4 | Solder Base | Nickel Pellets | 0.00012 | Nickel | 7440-02-0 | 100.000 | 1.000 | 1.00 |
| 5 | Solder | Lead Free Solder | 0.00012 | Tin | 7440-31-5 | 100.000 | 1.000 | 1.00 |
| 6 | Adhesive | EPOXY | 0.00036 | Epoxy resin | 61788-97-4 | 50.000 | 1.500 | 3.00 |
| | | | | Carbon black | 1333-86-4 | 46.000 | 1.380 | |
| | | | | Acrylated Aliphatic Urethane | 68987-79-1 | 4.000 | 0.120 | |
| Total weight | | | 0.012 | | | | | |

This Document was updated on: 2024/04/12

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Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. (16)

Instructions: Please note, an example of a completed form follows these instructions.

A Material Declaration sheet is to be completed for each product family or variation of a product family regardless of RoHS compliance status. The following information is to be placed into the appropriate space on the form:

- 1) Material Group Number (Model number).
- 2) Brief description of the product line (i.e.; Panel Control; Chip Resistor; Line Protection Module, etc.).
- 3) The date the product family was determined to be Rohs compliant, leave blank if no RoHS version is available.
- 4) Yes or No.
- 5) Moisture Sensitivity Rating from J-STD-020C which can be found by going to the Bourns Intranet
 - a. Clicking on "Departments"
 - b. Clicking on "Environmental, Health and Safety"
 - c. Clicking on "Product Compliance Documents"
 - d. Clicking on "JEDEC Standards"
 - e. Clicking on "J-STD-020C" to open; scroll to page 13, table 5.1
- 6) Brief text description of the construction element of the product (i.e.; housing, contact spring, terminal, circuit board, etc.). Place each element on its own line.
- 7) Homogeneous Material Description (i.e.; Nylon, Brass, Stainless steel, etc.) no Proprietary information is to be used.
- 8) The weight, in grams, of the Construction element to four decimal places max.
- 9) The basic constituents of the homogeneous materials (i.e.; for stainless steel it might be carbon, manganese, silicon, chromium, nickel, iron) each constituent on its own line with in the major line of the homogeneous material.
- 10) CAS number for each of the constituent materials. A list of substances currently being used can be found in the Outlook Public folders under RoHS Information.
- 11) The weight of the individual substances from item (9) divided by the total Material weight of item (8) expressed as a percentage. 3 decimal places max. Ranges are acceptable for Non-Hazardous materials – however, use the average of the range for the percentage calculation. For hazardous Materials - use the maximum of the range listed. If the maximum number confirms NON-COMPLIANCE, contact the material supplier for range clarification.
- 12) The weight of the individual substances from item (9) divided by the total weight of the component (14) expressed as a percentage. 3 decimal places max.
- 13) The sum of the percentages of item (12) for the construction element (6) expressed as a percentage. 2 decimal places max.
- 14) The total weight of the component in grams. 4 decimal places max.
- 15) The actual date the document was created. Month/Day/Year format.
- 16) Any appropriate notes (i.e, ordering format or suffix requirements).
- 17) Appropriate Photographs or graphic representation of the product. Usually the same as the data sheet picture.