

# MATERIAL DECLARATION SHEET

**BOURNS®**

|                 |                                  |     |   |                                                                                     |
|-----------------|----------------------------------|-----|---|-------------------------------------------------------------------------------------|
| Material Number | SRN1060 series                   |     |   |  |
| Product Line    | Semi-shielded SMD Power Inductor |     |   |                                                                                     |
| Compliance Date | 2025/12/10                       |     |   |                                                                                     |
| 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   | Core                           | Ferrite                      | 1.18                  | Iron oxide (Fe2O3)                         | 1309-37-1           | 65%              | 38.35                             | 59.0                          |
|     |                                |                              |                       | Zinc oxide (ZnO)                           | 1314-13-2           | 18%              | 10.62                             |                               |
|     |                                |                              |                       | Nickel oxide (NiO)                         | 1313-99-1           | 12.5%            | 7.37                              |                               |
|     |                                |                              |                       | Cupric oxide(CuO)                          | 1317-38-0           | 4.5%             | 2.66                              |                               |
| 2   | Terminal                       | Plating-Ag                   | 0.005                 | Silver(Ag)                                 | 7440-22-4           | 100%             | 0.22                              | 0.22                          |
|     |                                | Plating-Ni                   | 0.002                 | Nickel (Ni)                                | 7440-02-0           | 100%             | 0.11                              | 0.11                          |
|     |                                | Plating-Sn                   | 0.003                 | Tin (Sn)                                   | 7440-31-5           | 100%             | 0.17                              | 0.17                          |
| 3.  | Wire                           | Copper (C11000)              | 0.665                 | Copper(Cu)                                 | 7440-50-8           | 99.95%           | 33.23                             | 33.25                         |
|     |                                |                              | Misc. ,not to declare | \                                          | 0.05%               | 0.02             |                                   |                               |
|     |                                | COATING                      | 0.035                 | Polyurethane                               | 9009-54-5           | 100%             | 1.75                              | 1.75                          |
| 4   | Adhesive                       | Magnetic conductive adhesive | 0.1                   | Iron oxide (Fe2O3)                         | 1309-37-1           | 42.3%            | 2.12                              | 5.0                           |
|     |                                |                              |                       | Nickel oxide (NiO)                         | 1313-99-1           | 9.1%             | 0.45                              |                               |
|     |                                |                              |                       | Zinc oxide (ZnO)                           | 1314-13-2           | 11.1%            | 0.55                              |                               |
|     |                                |                              |                       | Cupric oxide(CuO)                          | 1317-38-0           | 2.6%             | 0.13                              |                               |
|     |                                |                              |                       | Carbon                                     | 7740-44-0           | 0.2%             | 0.01                              |                               |
|     |                                |                              |                       | Oxygen                                     | 7782-44-7           | 0.3%             | 0.02                              |                               |
|     |                                |                              |                       | Quartz                                     | 14808-60-7          | 19%              | 0.95                              |                               |
|     |                                |                              |                       | Dimethylvinylated and trimethylated silica | 68988-89-6          | 15.4%            | 0.77                              |                               |
| 5   | Solder bar                     | Tin                          | 0.01                  | Tin (Sn)                                   | 7440-31-5           | 99%              | 0.49                              | 0.5                           |
|     |                                |                              |                       | Silver(Ag)                                 | 7440-22-4           | 0.5%             | 0.005                             |                               |
|     |                                |                              |                       | Copper(Cu)                                 | 7440-50-8           | 0.5%             | 0.005                             |                               |
|     |                                | Total weight                 | 2.0                   |                                            |                     |                  |                                   |                               |

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Important remarks: It is the responsibility of the user to verify they are accessing the latest version.