


MATERIAL DECLARATION SHEET



| | | | | |
|-----------------|----------------------------------|-----|---|---|
| Material Number | SRN8040HA Series | | |  |
| Product Line | Semi-shielded SMD Power Inductor | | | |
| Compliance Date | 2022/4/26 | | | |
| 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 | TN40H | 0.540 | Iron oxide (Fe2O3) | 1309-37-1 | 65.0 | 39.001 | 60.00 |
| | | | | Zinc oxide (ZnO) | 1314-13-2 | 18.0 | 10.800 | |
| | | | | Nickel oxide (NiO) | 1313-99-1 | 12.5 | 7.500 | |
| | | | | Cupric oxide(CuO) | 1317-38-0 | 4.5 | 2.700 | |
| 2 | Terminal | Plating | 0.003 | Silver(Ag) | 7440-22-4 | 46.0 | 0.153 | 0.33 |
| | | | | Nickel (Ni) | 7440-02-0 | 18.0 | 0.060 | |
| | | | | Tin (Sn) | 7440-31-5 | 36.0 | 0.120 | |
| 3 | Wire | P180-G2 | .2717 | Copper(Cu) | 7440-50-8 | 100.0 | 30.189 | 31.78 |
| | | | .0143 | Polyurethane resin | 9009-54-5 | 100.0 | 1.589 | |
| 4 | Adhesive | Magnetic conductive adhesive | 0.056 | Iron | 7439-89-6 | 60.0 | 3.733 | 6.22 |
| | | | | Carbon | 7740-44-0 | 0.20 | 0.012 | |
| | | | | Oxygen | 7782-44-7 | 0.30 | 0.019 | |
| | | | | Quartz | 14808-60-7 | 24.80 | 1.543 | |
| 5 | Solder bar | 0505H | 0.015 | Tin (Sn) | 7440-31-5 | 99.0 | 1.650 | 1.67 |
| | | | | Silver(Ag) | 7440-22-4 | 0.5 | 0.008 | |
| | | | | Copper(Cu) | 7440-50-8 | 0.5 | 0.008 | |
| | | Total weight | 0.9 | | | | | |

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BOURNS®

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