# MATERIAL DECLARATION SHEET

**Material Number**: CRL1206 (0.1~0.91Ω Series)

**Product Line**: Current Sensing Resistors

**Compliance Date**: 2018/10/05

**RoHS Compliant**: Yes

## MSL

1/2/3

### Construction Element(subpart) | Homogeneous Material | Material weight [mg] | Homogeneous Material\Substances | CASRN if applicable | Material Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%)
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1 | Ceramic Substrate | Ceramic Substrate | 7.9107819 | Aluminum oxide | 1344-28-1 | 96% | 80.81% | 84.18% |
|  |  |  |  | Silicon dioxide | 14808-60-7 | 4% | 3.37% | 3.37% |
2 | Conductor Layer | Conductor Layer | 0.2490327 | Silver | 7440-22-4 | 95% | 2.52% | 2.52% |
|  |  |  |  | Glass | 65997-17-3 | 5% | 0.13% | 0.13% |
3 | Resistive Element | Ni-Cu-Mn | 0.293201 | Manganese | 7439-96-5 | 1.5% | 3.12% | 3.12% |
|  |  |  |  | Copper | 7440-50-8 | 63% | 3.12% | 3.12% |
|  |  |  |  | Nickel | 7440-02-0 | 100% | 1.69% | 1.69% |
4 | Over-Coating | Over-Coating | 0.1588171 | Epoxy | 29690-82-2 | 100% | 1.69% | 1.69% |
5 | Marking | Marking | 0.02161416 | Epoxy | 25068-38-6 | 100% | 0.23% | 0.23% |
6 | End Terminal | End Terminal | 0.03289111 | Nickel | 7440-02-0 | 80% | 0.28% | 0.35% |
|  |  |  |  | Chromium | 7440-47-3 | 20% | 0.07% | 0.07% |
7 | Cu Plating | Copper | 0.4059703 | Copper | 7440-50-8 | 100% | 4.32% | 4.32% |
8 | Ni Plating | Nickel | 0.1625761 | Nickel | 7440-02-0 | 100% | 1.73% | 1.73% |
9 | Sn Plating | Tin | 0.1625761 | Tin | 7440-31-5 | 100% | 1.73% | 1.73% |
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**TOTAL**: 9.39746

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This Document was updated on: 2018/10/05 — the Date you completed fulfillment.

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