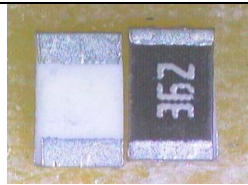


MATERIAL DECLARATION SHEET



| | | | | |
|-----------------|---------------|-----|---|---|
| Material Number | CR1206 | | |  |
| Product Line | Chip Resistor | | | |
| Compliance Date | 2010/08/16 | | | |
| 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 | Ceramic Substrate | Ceramic | 0.00859 | Aluminum oxide | 1344-28-1 | 96% | 87.04% | 85.93% |
| | | | | Silicon dioxide | 14808-60-7 | 4% | 3.63% | |
| 2 | Conductor Layer | Conductor glass | 0.000147 | Silver | 7440-22-4 | 96% | 1.62% | 2.31% |
| | | | | Bismuth trioxide | 1304-76-3 | 1% | 0.0225% | |
| | | | | Barium oxide | 1304-28-5 | 1% | 0.0225% | |
| | | | | Silicon dioxide | 7631-86-9 | 1% | 0.0225% | |
| | | | | Boron oxide | 1303-86-2 | 1% | 0.0225% | |
| 3 | Resistive Element | Resistor glass | 0.000095 | Ruthenium dioxide | 12036-10-1 | 25% | 0.28% | 1.32% |
| | | | | Silver | 7440-22-4 | 40% | 0.44% | |
| | | | | Palladium | 7440-05-3 | 15% | 0.17% | |
| | | | | Lead oxide glass | 1317-36-8 | 20% | 0.22% | |
| 4 | Over Coating | Epoxy | 0.00011 | Epoxy | 29690-82-2 | 100% | 1.32% | 1.57% |
| 5 | Marking | Epoxy | 0.000013 | Epoxy | 25068-38-6 | 100% | 0.15% | 0.16% |
| 6 | End Terminal | NI-CR | 0.000007 | Nickel | 7440-02-0 | 80% | 0.06% | 0.13% |
| | | | | Chromium III | 7440-47-3 | 20% | 0.02% | |
| 7 | Ni Plating | Nickel | 0.000232 | Nickel | 7440-02-0 | 100% | 2.70% | 4.54% |
| 8 | Sn Plating | Tin | 0.00019 | Tin | 7440-31-5 | 100% | 2.26% | 4.04% |
| | | | Total weight | 0.009384 | | | | |

MATERIAL DECLARATION SHEET

BOURNS[®]

This Document was updated on: 05.18.2010

Important remarks:

1. It is the responsibility of the user to verify they are accessing the latest version.
2. RoHS exemption 5 – lead in glass of ... electronic components...