

# MATERIAL DECLARATION SHEET

**BOURNS®**

|                 |                          |     |         |                                                                                     |
|-----------------|--------------------------|-----|---------|-------------------------------------------------------------------------------------|
| Material Number | MH1608 Series            |     |         |  |
| Product Line    | Ferrite Chip Bead Series |     |         |                                                                                     |
| Compliance Date | 6-1-2003                 |     |         |                                                                                     |
| RoHS Compliant  | Yes                      | MSL | Level 1 |                                                                                     |

| No.          | Construction Element (subpart) | Homogeneous Material | Material weight [g] | Homogeneous Material\ Substances | CASRN if applicable | Materials Mass % | Subpart mass of total wt. (%) | Material Mass % of total unit wt. |
|--------------|--------------------------------|----------------------|---------------------|----------------------------------|---------------------|------------------|-------------------------------|-----------------------------------|
| 1            | Ferrite body                   | Ferrite Ni-Zn Series | 0.0039695           | Iron oxide                       | 1309-37-1           | 62               | 52.7                          | 85                                |
|              |                                |                      |                     | Nickel oxide                     | 1313-99-1           | 11               | 9.35                          |                                   |
|              |                                |                      |                     | Zinc oxide                       | 1314-13-2           | 20               | 17                            |                                   |
|              |                                |                      |                     | Copper oxide                     | 1317-38-0           | 7                | 5.95                          |                                   |
| 2            | Internal circuit               | Silver paste-7454B   | 0.000467            | Silver                           | 7440-22-4           | 100              | 10                            | 10                                |
| 3            | Terminal                       | Silver paste-DP4303W | 0.0001401           | Silver                           | 7440-22-4           | 85               | 2.55                          | 3                                 |
|              |                                |                      |                     | Glass                            | 65997-18-4          | 15               | 0.45                          |                                   |
| 4            | Solder Base                    | Nickel               | 0.0000467           | Nickel                           | 7440-02-0           | 100              | 1                             | 1                                 |
| 5            | Solder                         | Tin                  | 0.0000467           | Tin                              | 7440-31-5           | 100              | 1                             | 1                                 |
| Total weight |                                |                      | 0.00467             |                                  |                     |                  |                               |                                   |

**This Document was updated on: 2011/01/06**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.