

# MATERIAL DECLARATION SHEET



|                 |                 |     |   |                                                                                     |
|-----------------|-----------------|-----|---|-------------------------------------------------------------------------------------|
| Material Number | 1250A-2S series |     |   |  |
| Product Line    | SPD             |     |   |                                                                                     |
| Compliance Date | 2025/9/30       |     |   |                                                                                     |
| RoHS Compliant  | Yes             | MSL | 1 |                                                                                     |

| NO | Construction Element (subpart) | Homogeneous Materials | Material weight [g] | Homogeneous Material       | CASRN         | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt • (%) |
|----|--------------------------------|-----------------------|---------------------|----------------------------|---------------|------------------|-----------------------------------|--------------------------------|
|    |                                |                       |                     | Substances                 | if applicable |                  |                                   |                                |
| 1  | Varistor                       | Ceramic               | 47.8                | Zinc oxide                 | 1314-13-2     | 99.00%           | 19.81%                            | 20.01%                         |
|    |                                |                       |                     | Manganese oxide            | 1344-43-0     | 0.25%            | 0.05%                             |                                |
|    |                                |                       |                     | Nickel oxide               | 1313-99-1     | 0.25%            | 0.05%                             |                                |
|    |                                |                       |                     | Cobalt oxide               | 1307-96-6     | 0.25%            | 0.05%                             |                                |
|    |                                |                       |                     | Bismuth trioxide           | 1304-76-3     | 0.25%            | 0.05%                             |                                |
|    | Termination                    |                       | 2                   | Silver                     | 7440-22-4     | 100.00%          | 0.84%                             | 0.84%                          |
| 2  | Plastic shell                  | PBT                   | 99.2                | Polybutylene terephthalate | 63440-93-7    | 80.00%           | 33.22%                            | 41.53%                         |
|    |                                |                       |                     | Glass fiber                | 65997-17-3    | 20.00%           | 8.31%                             |                                |
| 3  | Spring                         | Spring                | 0.6                 | Iron                       | 7439-89-6     | 98.00%           | 0.25%                             | 0.25%                          |
|    |                                |                       |                     | Manganese                  | 7439-96-5     | 0.65%            | 0.00%                             |                                |
|    |                                |                       |                     | Carbon                     | 7440-44-0     | 0.65%            | 0.00%                             |                                |
|    |                                |                       |                     | Silicon                    | 7440-21-3     | 0.20%            | 0.00%                             |                                |
|    |                                |                       |                     | Misc not to declare        | ---           | 0.50%            | 0.00%                             |                                |

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|---|---------------------------|-----------------------|------|---------------------------------|----------------|--------|--------|--------|
| 4 | Switch                    | Brass<br>H62(C2800)   | 1.6  | Copper                          | 7440-50-8      | 65.00% | 0.44%  | 0.67%  |
|   |                           |                       |      | Lead                            | 7439-92-1      | 0.02%  | 0.00%  |        |
|   |                           |                       |      | Zinc                            | 7440-66-6      | 34.95% | 0.23%  |        |
|   |                           |                       |      | Iron                            | 7439-89-6      | 0.03%  | 0.00%  |        |
|   |                           | Plastic shell         | 1.76 | PPA                             | 24938 - 64 - 5 | 50.00% | 0.37%  | 0.74%  |
|   |                           |                       |      | Glass fiber.                    | 65997-17-3     | 30.00% | 0.22%  |        |
|   |                           |                       |      | Flame retardant (C18H16Br4O3) n | 68928-70-1     | 12.00% | 0.09%  |        |
|   |                           |                       |      | Flame retardant Sb2O3           | 1309-64-4      | 8.00%  | 0.06%  |        |
|   |                           | Phosphorous<br>copper | 0.6  | Copper                          | 7440-50-8      | 95.20% | 0.24%  | 0.25%  |
|   |                           |                       |      | Tin                             | 7440-31-5      | 4.80%  | 0.01%  |        |
|   |                           | Cold rolled steel     | 0.08 | Iron                            | 7440-22-4      | 90.00% | 0.03%  | 0.03%  |
|   |                           |                       |      | Carbon                          | 7440-02-0      | 10.00% | 0.00%  |        |
|   |                           | SUS301                | 1.12 | Iron                            | 7439-89-6      | 73.00% | 0.34%  | 0.47%  |
|   |                           |                       |      | Chromium                        | 7440-47-3      | 18.00% | 0.08%  |        |
|   |                           |                       |      | Nickel                          | 7440-02-0      | 9.00%  | 0.04%  |        |
| 5 | Electrode                 | Copper part           | 59.4 | Copper                          | 7440-50-8      | 91.55% | 22.77% | 24.87% |
|   |                           |                       |      | Tin                             | 7440-31-5      | 8.00%  | 1.99%  |        |
|   |                           |                       |      | Zinc                            | 31396-84-6     | 0.30%  | 0.07%  |        |
|   |                           |                       |      | Phosphorus                      | 7723-14-0      | 0.15%  | 0.04%  |        |
| 6 | Low-temperature<br>alloys | Alloys Solder         | 1    | Tin                             | 7440-31-5      | 42.00% | 0.18%  | 0.42%  |
|   |                           |                       |      | Bismuth                         | 7440-69-9      | 58.00% | 0.24%  |        |

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|   |                  |                  |      |                                       |            |        |       |       |
|---|------------------|------------------|------|---------------------------------------|------------|--------|-------|-------|
| 7 | Potting adhesive | Potting adhesive | 10   | Polydimethylsiloxane                  | 68083-19-2 | 60.00% | 2.51% | 4.19% |
|   |                  |                  |      | Polymethylhydrosiloxane               | 63148-57-2 | 5.00%  | 0.21% |       |
|   |                  |                  |      | Alumina                               | 1344-28-1  | 24.00% | 1.00% |       |
|   |                  |                  |      | Aluminum hydroxide                    | 21645-51-2 | 10.00% | 0.42% |       |
|   |                  |                  |      | Platinum                              | 68478-92-2 | 0.20%  | 0.01% |       |
|   |                  |                  |      | Carbon black                          | 1333-86-4  | 0.80%  | 0.03% |       |
| 8 | Screw            | SUS304           | 13.6 | Carbon                                | 7440-44-0  | 0.19%  | 0.01% | 5.69% |
|   |                  |                  |      | Manganese                             | 7439-96-5  | 0.78%  | 0.04% |       |
|   |                  |                  |      | Phosphorus                            | 7723-14-0  | 0.02%  | 0.00% |       |
|   |                  |                  |      | Sulfur                                | 7704-34-9  | 0.01%  | 0.00% |       |
|   |                  |                  |      | Silicon                               | 7440-21-3  | 0.04%  | 0.00% |       |
|   |                  |                  |      | Aluminum                              | 7429-90-5  | 0.04%  | 0.00% |       |
|   |                  |                  |      | Iron                                  | 7439-89-6  | 98.91% | 5.63% |       |
| 9 | Ink Printing     | Ink              | 0.1  | Epoxy Resins                          | 61788-97-4 | 60.00% | 0.03% | 0.04% |
|   |                  |                  |      | Titanium dioxide powder, color powder | 1333-86-4  | 35.00% | 0.01% |       |
|   |                  |                  |      | Other additives                       | 67763-03-5 | 5.00%  | 0.00% |       |

Total 238.86

**This Document was updated: Sept. 2025**

## Important remarks:

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