

MATERIAL DECLARATION SHEET



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|-----------------|------------------------|------------|----------|---|
| Material Number | 1250A-3S series | | |  |
| Product Line | SPD | | | |
| Compliance Date | Oct 2024 | | | |
| 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 | 71.5 | Zinc oxide | 1314-13-2 | 99.00% | 19.43% | 19.63% |
| | | | | 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 | 3 | Silver | 7440-22-4 | 100.00% | 0.82% | 0.82% |
| 2 | Plastic shell | PBT | 159.9 | Polybutylene terephthalate | 63440-93-7 | 80.00% | 35.12% | 43.90% |
| | | | | Glass fiber | 65997-17-3 | 20.00% | 8.78% | |
| 3 | Spring | Spring | 1 | Iron | 7439-89-6 | 98.00% | 0.27% | 0.27% |
| | | | | 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% | |
| 4 | Switch | Brass | 2.4 | Copper | 7440-50-8 | 65.00% | 0.43% | 0.43% |
| | | | | Lead | 7439-92-1 | 0.02% | 0.00% | |
| | | | | Zinc | 7440-66-6 | 34.95% | 0.23% | 0.60% |
| | | | | Iron | 7439-89-6 | 0.03% | 0.00% | |

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|--------|------------------------|--------------------|------|--|------------|--------|--------|--------|-------|
| | | Plastic shell | 2.66 | PBT resin (C12H12O4) n | 26062-94-2 | 50.00% | 0.37% | 0.48% | |
| | | | | Glass fiber. | 65997-17-3 | 30.00% | 0.22% | | |
| | | | | Flame retardant (C 18 H 16 Br 4 O 3) n | 68928-70-1 | 12.00% | 0.09% | | |
| | | | | Flame retardant Sb2O3 | 1309-64-4 | 8.00% | 0.06% | | |
| | | Phosphorous copper | 0.3 | Copper | 7440-44-8 | 95.20% | 0.08% | | 0.00% |
| | | | | Tin | 7440-31-5 | 4.80% | 0.00% | | |
| | | Silver plated | 0.12 | Silver | 7440-22-4 | 90.00% | 0.03% | | 0.00% |
| | | | | Nickel | 7440-02-0 | 10.00% | 0.00% | | |
| | | Nylon | 0.06 | PA66 | 32131-17-2 | 50.00% | 0.01% | | 0.02% |
| | | | | Glass fiber | 65997-17-3 | 30.00% | 0.00% | | |
| | | | | Brominated polystyrene | 88497-56-7 | 19.50% | 0.00% | | |
| | | | | Antioxidant | 23128-74-7 | 0.50% | 0.00% | | |
| | | SUS304 | 1.66 | Iron | 7439-89-6 | 73.00% | 0.33% | | 0.46% |
| | | | | Chromium | 7440-47-3 | 18.00% | 0.08% | | |
| Nickel | 7440-02-0 | | | 9.00% | 0.04% | | | | |
| 5 | Electrode | Copper part | 89.1 | Copper | 7440-50-8 | 91.55% | 22.39% | 24.46% | |
| | | | | Tin | 7440-31-5 | 8.00% | 1.96% | | |
| | | | | Zinc | 31396-84-6 | 0.30% | 0.07% | | |
| | | | | Phosphorus | 7723-14-0 | 0.15% | 0.04% | | |
| 6 | Low-temperature alloys | Alloys Solder | 1.5 | Tin | 7440-31-5 | 42.00% | 0.17% | 0.41% | |
| | | | | Bismuth | 7440-69-9 | 58.00% | 0.24% | | |
| 7 | Potting adhesive | Potting adhesive | 15.5 | Polydimethylsiloxane | 68083-19-2 | 60.00% | 2.55% | 4.26% | |
| | | | | Polymethylhydrosiloxane | 63148-57-2 | 5.00% | 0.21% | | |
| | | | | Alumina | 1344-28-1 | 24.00% | 1.02% | | |
| | | | | Aluminum hydroxide | 21645-51-2 | 10.00% | 0.43% | | |
| | | | | Platinum | 68478-92-2 | 0.20% | 0.01% | | |

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|-------|-------|--------------|--------|---------------------------------------|--------------|--------|-------|-------|
| | | | | Carbon black | 1333-86-4 | 0.80% | 0.03% | |
| 8 | Screw | Carbon steel | 15.4 | Carbon | 7440-44-0 | 0.19% | 0.01% | 4.23% |
| | | | | Manganese | 7439-96-5 | 0.78% | 0.03% | |
| | | | | 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% | 4.18% | |
| | | | | 9 | Ink Printing | Ink | 0.15 | |
| | | | | Titanium dioxide powder, color powder | 1333-86-4 | 35.00% | 0.01% | |
| | | | | Other additives | 67763-03-5 | 5.00% | 0.00% | |
| Total | | | 364.25 | | | | | |

This Document was updated: Oct 2024

Important remarks:

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