

# MATERIAL DECLARATION SHEET

**BOURNS®**

|                 |               |     |     |                                                                                     |
|-----------------|---------------|-----|-----|-------------------------------------------------------------------------------------|
| Material Number | 153223-000    |     |     |  |
| Product Line    | HPHR Choke    |     |     |                                                                                     |
| Compliance Date | 24. June 2025 |     |     |                                                                                     |
| RoHS Compliant  | Yes           | MSL | N/A |                                                                                     |

| 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 unit wt. |
|-----|-------------------------------|----------------------------|---------------------|-----------------------------------------------------|---------------------|------------------|-----------------------------------|----------------------------------|
| 1   | Toroid core, gapped           | Ferrite core               | 559.82              | Manganese-Zinc-Ferrite                              | 12645-49-7          | 100              | 41.41                             | 41.66                            |
|     |                               | Epoxy-Adhesive             | 3.38                | Bisphenol A, epichlorohydrin polymer                | 25068-38-6          | 43.46            | 0.11                              |                                  |
|     |                               |                            |                     | Phenol, formaldehyde, (chloromethyl)oxirane polymer | 9003-36-5           | 14.30            | 0.04                              |                                  |
|     |                               |                            |                     | Polypropylene glycol, (chloromethyl)oxirane polymer | 9072-62-2           | 13.97            | 0.03                              |                                  |
|     |                               |                            |                     | Titanium dioxide                                    | 13463-67-7          | 0.78             | 0.002                             |                                  |
|     |                               |                            |                     | Ammonium-polyphosphate                              | 68333-79-9          | 24.00            | 0.06                              |                                  |
|     |                               |                            |                     | Additives, not to declare                           | --                  | 3.5              | 0.01                              |                                  |
| 2   | Enameled wire                 | Copper wire                | 484.57              | Copper                                              | 7440-50-8           | 100              | 35.84                             | 36.39                            |
|     |                               | Insulation Coating         | 7.43                | Polyesterimide                                      | 37317-16-1          | 78.9             | 0.43                              |                                  |
|     |                               |                            |                     | Polyamide-imide                                     | 31957-38-7          | 19.6             | 0.11                              |                                  |
|     |                               |                            |                     | Additives, not to declare                           | --                  | 1.5              | 0.01                              |                                  |
| 3   | Single core conductor         | Copper wire                | 156.61              | Copper                                              | 7440-50-8           | 100              | 11.58                             | 14.66                            |
|     |                               | Tin Coating, electroplated | 6.94                | Tin                                                 | 7440-31-5           | 99.45            | 0.51                              |                                  |
|     |                               |                            |                     | Lead                                                | 7439-92-1           | 0.05             | 0.0003                            |                                  |
|     |                               |                            |                     | Misc., not to declare                               | --                  | 0.5              | 0.003                             |                                  |
|     |                               | Insulation Coating         | 34.69               | Ethylene-vinyl acetate copolymer                    | 24937-78-8          | 31               | 0.80                              |                                  |
|     |                               |                            |                     | Aluminium hydroxide                                 | 21645-51-2          | 63               | 1.62                              |                                  |
|     |                               |                            |                     | Additives, not to declare                           | --                  | 6                | 0.15                              |                                  |

# MATERIAL DECLARATION SHEET

**BOURNS®**

| 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 unit wt. |
|-----|-------------------------------|----------------------|---------------------|-----------------------------------------------------------------------------|---------------------|------------------|-----------------------------------|----------------------------------|
| 4   | Adhesive Tape                 | PET Foil             | 1.91                | Polyethylene terephthalate                                                  | 25038-59-9          | 95               | 0.13                              | 0.51                             |
|     |                               |                      |                     | Misc., not to declare                                                       | --                  | 5                | 0.01                              |                                  |
|     |                               | PET non-woven        | 1.46                | Polyethylene terephthalate                                                  | 25038-59-9          | 99.75            | 0.11                              |                                  |
|     |                               |                      |                     | Misc., not to declare                                                       | --                  | 0.25             | 0.0003                            |                                  |
|     |                               | Adhesive Layer 1     | 0.69                | Poly(2-ethylhexyl acrylate, acrylic acid)                                   | 25134-51-4          | 60               | 0.03                              |                                  |
|     |                               |                      |                     | Titanium dioxide                                                            | 13463-67-7          | 29               | 0.02                              |                                  |
|     |                               |                      |                     | Amino resin                                                                 | 68002-25-5          | 5                | 0.003                             |                                  |
|     |                               |                      |                     | Melamine resin                                                              | 9003-08-1           | 2.5              | 0.001                             |                                  |
|     |                               |                      |                     | Phenolic Resin                                                              | 9003-35-4           | 1.5              | 0.001                             |                                  |
|     |                               |                      |                     | Misc., not to declare                                                       | --                  | 2                | 0.001                             |                                  |
|     |                               | Adhesive Layer 2     | 2.88                | Hydrogenated rosin, pentaerythritol ester                                   | 64365-17-9          | 33.5             | 0.07                              |                                  |
|     |                               |                      |                     | Natural Rubber                                                              | 9006-04-6           | 31.5             | 0.07                              |                                  |
|     |                               |                      |                     | Bicyclo(3.1.1)heptane, 6,6-dimethyl-2-methylene-, homopolymer               | 25719-60-2          | 12               | 0.03                              |                                  |
|     |                               |                      |                     | Styrene-butadiene rubber                                                    | 9003-55-8           | 9                | 0.02                              |                                  |
|     |                               |                      |                     | Zinc oxide                                                                  | 1314-13-2           | 5                | 0.01                              |                                  |
|     |                               |                      |                     | Phenolic Resin                                                              | 9003-35-4           | 4.5              | 0.01                              |                                  |
|     |                               |                      |                     | Fatty acids, C16-18, zinc salts                                             | 91051-01-3          | 1.5              | 0.003                             |                                  |
|     |                               |                      |                     | Thiram                                                                      | 137-26-8            | 0.5              | 0.001                             |                                  |
|     |                               |                      |                     | Zinc bis(dibutyldithiocarbamate)                                            | 136-23-2            | 0.5              | 0.001                             |                                  |
|     |                               |                      |                     | Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene | 68610-51-5          | 0.5              | 0.001                             |                                  |
|     |                               |                      |                     | N,N'-Caprolactam disulfide                                                  | 23847-08-7          | 0.5              | 0.001                             |                                  |
|     |                               |                      |                     | Misc., not to declare                                                       | --                  | 1                | 0.002                             |                                  |

# MATERIAL DECLARATION SHEET



| 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 unit wt. |
|-----|-------------------------------|----------------------------------|---------------------|-----------------------------------------------------------------------------------------------|---------------------|------------------|-----------------------------------|----------------------------------|
| 5   | Shim                          | Glass fiber reinforced Polyester | 2.00                | Polyethylene terephthalate                                                                    | 25038-59-9          | 34.1             | 0.05                              | 0.15                             |
|     |                               |                                  |                     | Glass fiber                                                                                   | 65997-17-3          | 30               | 0.04                              |                                  |
|     |                               |                                  |                     | ISO 1043-4 FR(17) aromatic brominated compounds (excl. brominated diphenyl ether & biphenyls) | --                  | 20               | 0.03                              |                                  |
|     |                               |                                  |                     | ISO 1043-4 FR(63) alkali-metal antimonate, not declarable                                     | --                  | 10               | 0.02                              |                                  |
|     |                               |                                  |                     | PTFE                                                                                          | 9002-84-0           | 0.9              | 0.001                             |                                  |
|     |                               |                                  |                     | Additives, not to declare                                                                     | --                  | 5                | 0.01                              |                                  |
| 6   | Silicon Fiberglass Sleeving   | Silicone Coating                 | 6.21                | Methyl Vinyl Silicone Oxygen                                                                  | 68083-19-2          | 52.7             | 0.24                              | 1.41                             |
|     |                               |                                  |                     | Fumed Silica                                                                                  | 14808-60-7          | 21.8             | 0.10                              |                                  |
|     |                               |                                  |                     | Dimethyl Polysiloxane                                                                         | 70131-67-8          | 19.9             | 0.09                              |                                  |
|     |                               |                                  |                     | Polymethylhydrosiloxane                                                                       | 63148-57-2          | 3.0              | 0.01                              |                                  |
|     |                               |                                  |                     | Silane Coupling Agent                                                                         | 2530-83-8           | 2.0              | 0.01                              |                                  |
|     |                               |                                  |                     | Red Pigment                                                                                   | 84632-65-5          | 0.6              | 0.003                             |                                  |
|     |                               | Fiberglass sleeve                | 12.84               | Glass, oxide, chemicals                                                                       | 65997-17-3          | 100              | 0.95                              |                                  |
| 7   | Parallel Connectors           | Copper                           | 38.01               | Copper                                                                                        | 7440-50-8           | 100              | 2.81                              | 2.95                             |
|     |                               | Tin                              | 1.87                | Tin                                                                                           | 7440-31-5           | 100              | 0.14                              |                                  |
| 8   | Compression Cable Lugs        | Copper                           | 19.60               | Copper                                                                                        | 7440-50-8           | 100              | 1.45                              | 1.52                             |
|     |                               | Tin                              | 0.94                | Tin                                                                                           | 7440-31-5           | 100              | 0.07                              |                                  |
| 9   | Cable Ties                    | Polyamide                        | 5.08                | PA66                                                                                          | 32131-17-2          | 97               | 0.37                              | 0.38                             |
|     |                               |                                  |                     | Carbon Black                                                                                  | 1333-86-4           | 0.55             | 0.002                             |                                  |
|     |                               |                                  |                     | Additives, not to declare                                                                     | --                  | 2.45             | 0.01                              |                                  |

# MATERIAL DECLARATION SHEET

**BOURNS®**

| 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 unit wt. |
|-----|-------------------------------|----------------------|---------------------|-----------------------------------|---------------------|------------------|-----------------------------------|----------------------------------|
| 10  | Impregnation Resin            | Polyester Resin      | 3.00                | Polyesterimide resin              | 37317-16-1          | 97               | 0.22                              | 0.22                             |
|     |                               |                      |                     | Melamine resin                    | 9003-08-1           | 1.5              | 0.003                             |                                  |
|     |                               |                      |                     | Acrylic resin                     | --                  | 1                | 0.002                             |                                  |
|     |                               |                      |                     | Additives, not to declare         | --                  | 0.5              | 0.001                             |                                  |
| 11  | Solder                        | Sn99Ag0.3Cu0.7       | 2.00                | Tin                               | 7440-31-5           | 99               | 0.15                              | 0.15                             |
|     |                               |                      |                     | Copper                            | 7440-50-8           | 0.7              | 0.001                             |                                  |
|     |                               |                      |                     | Silver                            | 7440-22-4           | 0.3              | 0.0004                            |                                  |
|     |                               | Total weight         | 1351.93             |                                   |                     |                  |                                   |                                  |

**This Document was updated on: 06/24/2025**

**Important remarks:**

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