


# MATERIAL DECLARATION SHEET



|                 |                 |     |   |   |
|-----------------|-----------------|-----|---|---|
| Material Number | PFBR45-ST13150S |     |   |  |
| Product Line    | transformer     |     |   |   |
| Compliance Date | 2021/7/1        |     |   |   |
| 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   | BOBBIN                        | PM-9630(JT BLACK)    | 1.429               | Phenolic Resin                   | 9003-35-4           | 40%              | 8.493%                            | 21.23%                        |
|     |                               |                      |                     | Aluminum Silicate                | 92704-41-1          | 5%               | 1.062%                            |                               |
|     |                               |                      |                     | Glass Fiber                      | 65997-17-3          | 50%              | 10.617%                           |                               |
|     |                               |                      |                     | Stearic Acid                     | 61790-38-3          | 2%               | 0.425%                            |                               |
|     |                               |                      |                     | Carbon Black                     | 1333-86-4           | 2%               | 0.425%                            |                               |
|     |                               |                      |                     | Zinc Stearate                    | 557-05-1            | 1%               | 0.212%                            |                               |
| 2   | WIRE                          | UEW-F(NY)            | 0.76                | Copper                           | 7440-50-8           | 80%              | 9.034%                            | 11.29%                        |
|     |                               |                      |                     | Tetrafluoroethylene              | 116-14-3            | 20%              | 2.259%                            |                               |
| 3   | WIRE                          | THL-B1               | 1.216               | Copper                           | 7440-50-8           | 98%              | 17.709%                           | 18.07%                        |
|     |                               |                      |                     | PFA                              | 26655-00-5          | 2%               | 0.361%                            |                               |
| 4   | TAPE                          | 1218                 | 0.101               | Acrylic Polymer                  | 9017-68-9           | 50%              | 0.900%                            | 1.50%                         |
|     |                               |                      |                     | Polyimide                        | 62929-02-6          | 50%              | 0.600%                            |                               |
| 5   | CORE                          | P47                  | 2.615               | Iron Oxide                       | 1309-37-1           | 72%              | 27.976%                           | 38.85%                        |
|     |                               |                      |                     | Manganese oxide                  | 1317-35-7           | 22%              | 8.548%                            |                               |
|     |                               |                      |                     | Zinc Oxide                       | 1314-13-2           | 6%               | 2.331%                            |                               |
| 6   | GLUE                          | S-9001               | 0.203               | Epoxy Resin                      | 25036-25-3          | 67.8%            | 2.048                             | 3.02%                         |
|     |                               |                      |                     | Alkyd glycidyl ether             | 68609-97-2          | 2.2%             | 0.066                             |                               |
|     |                               |                      |                     | Carbon black                     | 1333-86-4           | 5.6%             | 0.169                             |                               |
|     |                               |                      |                     | Silicon dioxide                  | 7631-86-9           | 24.4%            | 0.737                             |                               |
| 7   | SOLDER                        | M20                  | 0.203               | Tin                              | 7440-31-5           | 99.3%            | 2.995%                            | 3.02%                         |

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|   |          |                        |             |             |           |       |        |       |
|---|----------|------------------------|-------------|-------------|-----------|-------|--------|-------|
| 8 | TERMINAL | PHOSPHOR<br>BRONZE TIN | 0.203       | Copper      | 7440-50-8 | 0.7%  | 0.021% | 3.02% |
|   |          |                        |             | Copper      | 7440-50-8 | 88.8% | 2.679% |       |
|   |          |                        |             | Nickel      | 7440-02-0 | 1%    | 0.030% |       |
|   |          |                        |             | Tin         | 7440-31-5 | 10%   | 0.302% |       |
|   |          |                        |             | Phosphorous | 7723-14-0 | 0.2%  | 0.006% |       |
|   |          | Total weight           | <b>6.73</b> |             |           |       |        |       |

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