


# MATERIAL DECLARATION SHEET



|                 |                    |     |   |   |
|-----------------|--------------------|-----|---|---|
| Material Number | PM5022-series      |     |   |  |
| Product Line    | SMD POWER INDUCTOR |     |   |   |
| Compliance Date | 2009.06.02         |     |   |   |
| RoHS Compliant  | YES                | MSL | 1 |   |

| No. | Construction Element(subpart) | Homogeneous Material | Material weight [mg] | Homogeneous Material\ Substances | CASRN if applicable | Materials Mass % | Material Mass % of total unit wt. | Subpart mass of total wt. (%) |
|-----|-------------------------------|----------------------|----------------------|----------------------------------|---------------------|------------------|-----------------------------------|-------------------------------|
| 1   | Ferrite Material              | F4D                  | 2300                 | Iron oxide                       | 1309-37-1           | 60               | 34.92                             | 58.2                          |
|     |                               |                      |                      | Nickel oxide                     | 1313-99-1           | 10               | 5.82                              |                               |
|     |                               |                      |                      | Zinc oxide                       | 1314-13-2           | 20               | 11.64                             |                               |
|     |                               |                      |                      | Copper oxide                     | 1317-38-0           | 10               | 5.82                              |                               |
| 2   | Winding Wire                  | 2SFBW                | 1190                 | Copper                           | 7440-50-8           | 95               | 28.6                              | 30.1                          |
|     |                               |                      |                      | Polyester Resin                  | 68604-67-1          | 5                | 1.5                               |                               |
| 3   | Solder                        | Lead free-solder     | 20                   | Tin                              | 7440-31-5           | 96.5             | 0.482                             | 0.5                           |
|     |                               |                      |                      | Silver                           | 7440-22-4           | 3                | 0.015                             |                               |
|     |                               |                      |                      | Copper                           | 7440-50-8           | 0.5              | 0.003                             |                               |
| 4   | BASE                          | LCP-E4008            | 370                  | Aromatic polyester resin         | 60088-52-0          | 100              | 9.4                               | 9.4                           |
| 5   | Terminal Electrode            | C5191                | 30                   | Copper                           | 7440-50-8           | 92.65            | 0.741                             | 0.8                           |
|     |                               |                      |                      | Tin                              | 744031-5            | 7                | 0.056                             |                               |
|     |                               |                      |                      | Phosphorus                       | 7723-14-0           | 0.35             | 0.003                             |                               |
| 6   | Adhesive                      | 6020H-6-3            | 40                   | Bisphenol A Epoxy Resin          | 25068-38-6          | 61.9             | 0.6                               | 1                             |
|     |                               |                      |                      | Epoxy thinning agent             | 68609-97-2          | 3.1              | 0.03                              |                               |
|     |                               |                      |                      | Methyl imidazole                 | 693-98-1            | 5.1              | 0.05                              |                               |
|     |                               |                      |                      | Carbon black                     | 1333-86-4           | 3.1              | 0.03                              |                               |
|     |                               |                      |                      | Silicon dioxide                  | 7631-86-9           | 26.8             | 0.26                              |                               |
|     |                               |                      | Total weight         | 3950                             |                     |                  |                                   |                               |