

# LTM4601-1 118LD 15mm X 15mm X 2.82mm (TABLE OF MATERIAL DECLARATION)

*The LTM4601 is RoHS compliant per EU RoHS Directive 2003/95/EC.*

It contains less than 100ppm cadmium (Cd) and less than 1,000ppm of each - lead (Pb), mercury (Hg), hexavalent chromium (Cr+), polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE)

| No.                  | Part Name                 | Material Name | Component Weight (gram) | Materials Analysis (element)           | CAS Number     | Material Mass (gram) | Materials Analysis (weight %) |
|----------------------|---------------------------|---------------|-------------------------|--|----------------|----------------------|-------------------------------|
| 1                    | Substrate                 | Circuit Board | 0.1151                  | Barium Compounds                       | 7727-43-7      | 0.0017               | 1.50                          |
|                      |                           |               |                         | Filler Substances (Silica Crystalline) | 73776-74-4     | 0.0459               | 39.91                         |
|                      |                           |               |                         | Copper Metal                           | 7631-86-9      | 0.0645               | 56.00                         |
|                      |                           |               |                         | Copper Compounds                       | 7440-50-8      | 0.0000               | 0.02                          |
|                      |                           |               |                         | Ecotoxic substances                    | 1328-53-6      | 0.0000               | 0.00                          |
|                      |                           |               |                         | Gold metal or alloy                    | 7439-92-1      | 0.0005               | 0.46                          |
|                      |                           |               |                         | Nickel                                 | 7440-57-5      | 0.0024               | 2.10                          |
|                      |                           |               |                         | Zinc                                   | 7440-02-0      | 0.0000               | 0.01                          |
| 2                    | Solder Paste              | Alloy         | 0.0189                  | Sn                                     | 7440-66-6      | 0.0180               | 95.00                         |
|                      |                           |               |                         | Sb                                     | 7440-31-5      | 0.0009               | 5.00                          |
| 3                    | Passive/Active Components |               | 0.6687                  | Iron Powder (Fe)                       | 7440-36-0      | 0.3810               | 56.98                         |
|                      |                           |               |                         | Copper (Cu)                            | 7439-89-6      | 0.1519               | 22.72                         |
|                      |                           |               |                         | Nickel (Ni)                            | 7440-50-8      | 0.0161               | 2.40                          |
|                      |                           |               |                         | Tin (Sn)                               | 7440-02-0      | 0.0076               | 1.14                          |
|                      |                           |               |                         | Ceramic (Ba compounds)                 | 7440-31-5      | 0.1121               | 16.77                         |
| 4                    | Active Ics                | Silicon       | 0.0138                  | Silicon                                | 12047-27-7     | 0.0138               | 100.00                        |
| 5                    | Wire                      | Gold          | 0.0024                  | Au                                     | 7440-21-3      | 0.0024               | 99.99                         |
| 6                    | Encapsulation             | Epoxy Resin   | 0.8929                  | Fused Silica                           | 60676-86-0     | 0.6893               | 77.20                         |
|                      |                           |               |                         | Epoxy Resin                            | non-disclosure | 0.0795               | 8.90                          |
|                      |                           |               |                         | Phenol Resin                           | non-disclosure | 0.0795               | 8.90                          |
|                      |                           |               |                         | Crytalline Silica                      | 14808-60-7     | 0.0268               | 3.00                          |
|                      |                           |               |                         | Carbon Black                           | 1333-86-4      | 0.0045               | 0.50                          |
|                      |                           |               |                         | Metal Hydroxide                        | non-disclosure | 0.0134               | 1.50                          |
| Total Package Weight |                           |               | 1.7118                  |  |                |                      |                               |

Note: Composition derived from MSDS and material C of C from Vendors  
Component Weight based on assembly of generic parts