

**LTM4624-BGA, 25LD 6.25mm X 6.25mm X 5.01mm (TABLE OF MATERIAL DECLARATION)**

*The LTM4624 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 | 0.0451                  | Barium Compounds   | 7727-43-7   | 0.00101              | 2.24                          |
|                      |                           |               |                         | Bismaleimide/Triazine Resin/Filler Substances (Silica Crystalline) | 105391-33-1<br>1156-51-0/9003-36-5/21645-51-2<br>non-disclosure | 0.01553              | 34.4                          |
|                      |                           |               |                         | Copper Metal   | 7440-50-8   | 0.01332              | 29.51                         |
|                      |                           |               |                         | Copper Compounds   | 147-14-8  | 0.00001              | 0.02                          |
|                      |                           |               |                         | Ecotoxic substances  | 7440-38-2<br>7440-28-0  | 0.00000              | 0.002002                      |
|                      |                           |               |                         | Gold metal or alloy  | 7440-57-5   | 0.00009              | 0.21                          |
|                      |                           |               |                         | Nickel   | 7440-02-0   | 0.00071              | 1.57                          |
|                      |                           |               |                         | Zinc   | 7440-66-6   | 0.00001              | 0.026                         |
|                      |                           |               |                         | Continuous Filament Fiber Glass                                    | 65997-17-3  | 0.01220              | 27.03                         |
|                      |                           |               |                         | Acrylic Resin  | non-disclosure  | 0.00193              | 4.27                          |
|                      |                           |               |                         | Expoxxy Resin  | non-disclosure  | 0.00001              | 0.019                         |
|                      |                           |               |                         | Chromium (III) oxide   | 1308-38-9   | 0.00000              | 0.001                         |
|                      |                           |               |                         | Silica amorphous   | 7631-86-9   | 0.00002              | 0.051                         |
|                      |                           |               |                         | Talcinot containing fibers like asbestos                           | 14807-96-6  | 0.00012              | 0.26                          |
|                      |                           |               |                         | Arcomatic carbonyl compounds                                       | non-disclosure  | 0.00011              | 0.24                          |
|                      |                           |               |                         | Cyanoguanidine   | 461-58-5  | 0.00000              | 0.007                         |
|                      |                           |               |                         | Calcium Caobonate  | 471-34-1  | 0.00000              | 0.004                         |
|                      |                           |               |                         | Amine compounds  | non-disclosure  | 0.00001              | 0.033                         |
|                      |                           |               |                         | Leveling agent and others  | non-disclosure  | 0.00004              | 0.099                         |
| 2                    | Solder Paste              | Alloy         | 0.0083                  | Sn   | 7440-31-5   | 0.00784              | 95.0                          |
|                      |                           |               |                         | Sb   | 7440-36-0   | 0.00041              | 5.0                           |
| 3                    | Passive/Active Components |               | 0.1809                  | Iron Powder (Fe)   | 7439-89-6   | 0.14215              | 78.55873446                   |
|                      |                           |               |                         | Copper (Cu)  | 7440-50-8   | 0.03475              | 19.20170904                   |
|                      |                           |               |                         | Nickel (Ni)  | 7440-02-0   | 0.00050              | 0.278999724                   |
|                      |                           |               |                         | Tin (Sn)   | 7440-31-5   | 0.00119              | 0.655444874                   |
|                      |                           |               |                         | Ceramic (Ba) Compounds   | 12047-27-7  | 0.00236              | 1.305111909                   |
| 4                    | Active Ics                | Silicon       | 0.0016                  | Silicon  | 7440-21-3   | 0.00161              | 100                           |
| 5                    | Wire                      | Gold          | 0.0014                  | Au   | 7440-57-5   | 0.00140              | 99.99                         |
| 6                    | Solder Ball               | SAC305        | 0.0420                  | Sn   | 7440-31-5   | 0.04048              | 96.5                          |
|                      |                           |               |                         | Ag   | 7440-22-4   | 0.00126              | 3                             |
|                      |                           |               |                         | Cu   | 7440-50-8   | 0.00021              | 0.5                           |
| 7                    | Encapsulation             | Epoxy Resin   | 0.2457                  | Fused Silica   | 60676-86-0  | 0.18965              | 77.2                          |
|                      |                           |               |                         | Epoxy Resin  | non-disclosure  | 0.02186              | 8.9                           |
|                      |                           |               |                         | Phenol Resin   | non-disclosure  | 0.02186              | 8.9                           |
|                      |                           |               |                         | Crytalline Silica  | 14808-60-7  | 0.00737              | 3.0                           |
|                      |                           |               |                         | Carbon Black   | 1333-86-4   | 0.00123              | 0.5                           |
|                      |                           |               |                         | Metal Hydroxide  | non-disclosure  | 0.00368              | 1.5                           |
| Total Package Weight |                           |               | 0.5249                  |  |   |                      |                               |

Note: Composition derived from MSDS and material C of C from Vendors

Component Weight based on assembly of generic parts