

LTM4613 133LD 15mm X 15mm X 4.32mm (TABLE OF MATERIAL DECLARATION)

The LTM4613 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 | 0.2174 | Barium Compounds | 7727-43-7 | 0.00317 | 1.46 |
| | | | | Bismaleimide/Triazine Resin/Filler Substances (Silica Crystalline) | 105391-33-1, 1156-51-0/9003-36-5/21645-51-2 | 0.06584 | 30.29 |
| | | | | Copper Metal | 7440-50-8 | 0.09536 | 43.87 |
| | | | | Copper Compounds | 1328-53-6 | 0.00005 | 0.02 |
| | | | | Ecotoxic substances | 7440-38-2, 7440-28-0 | 0.00001 | 0.00 |
| | | | | Gold metal or alloy | 7440-57-5 | 0.00083 | 0.38 |
| | | | | Nickel | 7440-02-0 | 0.00530 | 2.44 |
| | | | | Zinc | 7440-66-6 | 0.00007 | 0.03 |
| | | | | Bisphenol A epoxyresin | 25068-38-6 | 0.01167 | 5.37 |
| | | | | Continous Filament Fiber Glass | 65997-17-3 | 0.03328 | 15.31 |
| | | | | Silica amorphous | 7631-86-9 | 0.00007 | 0.03 |
| | | | | Talc;not containing fibers like asbestos | 14807-96-6 | 0.00070 | 0.32 |
| | | | | Cyanoguanidine | 461-58-5 | 0.00002 | 0.01 |
| | | | | Leveling agent and others | non-disclosure | 0.00101 | 0.47 |
| 2 | Solder Paste | Alloy | 0.0042 | Sn | 7440-31-5 | 0.00396 | 95.00 |
| | | | | Sb | 7440-36-0 | 0.00021 | 5.00 |
| 3 | Passive/Active Components | | 0.8340 | Iron Powder (Fe) | 7439-89-6 | 0.6091 | 73.04 |
| | | | | Copper (Cu) | 7440-50-8 | 0.1677 | 20.10 |
| | | | | Nickel (Ni) | 7440-02-0 | 0.0069 | 0.82 |
| | | | | Tin (Sn) | 7440-31-5 | 0.0065 | 0.78 |
| | | | | Ceramic (Ba) Compounds | 12047-27-7 | 0.0439 | 5.26 |
| 4 | Active Ics | Silicon | 0.0111 | Silicon | 7440-21-3 | 0.01106 | 100.00 |
| 5 | Wire | Gold | 0.0007 | Au | 7440-57-5 | 0.00070 | 99.99 |
| 6 | Encapsulation | Epoxy Resin | 1.5198 | Fused Silica | 60676-86-0 | 1.17332 | 77.20 |
| | | | | Epoxy Resin | non-disclosure | 0.13527 | 8.90 |
| | | | | Phenol Resin | non-disclosure | 0.13527 | 8.90 |
| | | | | Crytalline Silica | 14808-60-7 | 0.04560 | 3.00 |
| | | | | Carbon Black | 1333-86-4 | 0.00760 | 0.50 |
| | | | | Metal Hydroxide | non-disclosure | 0.02280 | 1.50 |
| Total Package Weight | | | 2.5871 | | | | |

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