

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1412cg#trpbf

(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.232078

| COMPONENT MATERIAL | VENDOR/ INDUSTRY NAMES | CONSTITUENT NAME | CAS NUMBER | CONSTITUENT MASS (g) | CONSTITUENT (PPM) OF MATERIAL | CONSTITUENT (PPM) OF TOTAL PKG. | | |
|--------------------------------|----------------------------------|--------------------------------|------------|----------------------|-------------------------------|---------------------------------|----------------|----------------------|
| Active Device | Linear Technology | Silicon (Si) | 7440-21-3 | 0.003763 | 1000000 | 16214.3798828 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.122431 | 975000 | 527542.5625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.003014 | 24000 | 12987.015625 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000038 | 300 | 163.738098145 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000088 | 700 | 379.182952881 | | |
| | | Nickel (Ni) | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Silicon (Si) | 7440-21-3 | 0.000000 | 0 | 0 | | |
| | | Magnesium (Mg) | 7439-95-4 | 0.000000 | 0 | 0 | | |
| | | Tin (Sn) | 7440-31-5 | 0.000000 | 0 | 0 | | |
| Lead Frame Total: | | | | 0.125571 | 1000000 | 541072.5625 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.003749 | 1000000 | 16153.7617188 | | |
| | | External Plating Total: | | | | 0.003749 | 1000000 | 16153.7617188 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001005 | 1000000 | 4330.44189453 | | |
| Internal Plating Total: | | | | 0.001005 | 1000000 | 4330.44189453 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001079 | 750000 | 4649.30029297 | | |
| | | Tin (Sn) | 7440-31-5 | 0.000000 | 0 | 0 | | |
| | | Lead (Pb) | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.000000 | 0 | 0 | | |
| | | Indium (In) | 7440-74-6 | 0.000000 | 0 | 0 | | |
| | | Metal Oxide | | 0.000000 | 0 | 0 | | |
| | | Antimony (Sb) | 7440-36-0 | 0.000000 | 0 | 0 | | |
| | | Resin (EP) | | 0.000360 | 250000 | 1551.203125 | | |
| Die Attach Total: | | | | 0.001439 | 1000000 | 6200.50292969 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.009848 | 103000 | 42434.0195312 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.085571 | 895000 | 368716.625 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000191 | 2000 | 822.999328613 | | |
| | | Encapsulation Total: | | | | 0.095610 | 1000000 | 411973.65625 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000941 | 1000000 | 4054.67260742 | | |
| | | | | | TOTAL MASS (g) : | 0.232078 | | |