

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1159is-5#trpbf

(Engineering Calculation)

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TOTAL MASS (g) : 0.154395

| 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 | 0.002017 | 1000000 | 13063.9199219 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.051070 | 975000 | 330775.625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.001257 | 24000 | 8141.47119141 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000016 | 300 | 103.630493164 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000037 | 700 | 239.64553833 | | |
| | | 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: | | | | 0.052380 | 1000000 | 339260.34375 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.002954 | 1000000 | 19130.8632812 | | |
| | | External Plating Total: | | | | 0.002954 | 1000000 | 19130.8632812 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000419 | 1000000 | 2713.82373047 | | |
| Internal Plating Total: | | | | 0.000419 | 1000000 | 2713.82373047 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000691 | 750000 | 4475.54248047 | | |
| | | 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) | | 0.000230 | 250000 | 1489.68835449 | | |
| Die Attach Total: | | | | 0.000921 | 1000000 | 5965.23095703 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb Free | Resin (EP) | | 0.009816 | 103000 | 63577.3164062 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.085294 | 895000 | 552441.25 | | |
| | | 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 | 1237.08898926 | | |
| | | Encapsulation Total: | | | | 0.095301 | 1000000 | 617255.625 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000403 | 1000000 | 2610.19335938 | | |
| | | | | | TOTAL MASS (g) : | 0.154395 | | |