

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

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TOTAL MASS (g) : 0.074782

| 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 | 0.003222 | 1000000 | 43085.3203125 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000134 | 1000000 | 1791.87866211 | | |
| Lead Frame | A42 | Copper (Cu) | 7440-50-8 | 0.000000 | 0 | 0 | | |
| | | Iron (Fe) | 7439-89-6 | 0.014071 | 580000 | 188160.625 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000000 | 0 | 0 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000000 | 0 | 0 | | |
| | | Nickel (Ni) | 7440-02-0 | 0.010189 | 420000 | 136249.625 | | |
| | | 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: | | | | 0.024260 | 1000000 | 324410.25 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.001477 | 1000000 | 19748.8027344 | | |
| | | External Plating Total: | | | | 0.001477 | 1000000 | 19748.8027344 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000194 | 1000000 | 2594.21240234 | | |
| Internal Plating Total: | | | | 0.000194 | 1000000 | 2594.21240234 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000948 | 750000 | 12676.8730469 | | |
| | | 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) | | 0.000316 | 250000 | 4225.62402344 | | |
| Die Attach Total: | | | | 0.001264 | 1000000 | 16902.4960938 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.006618 | 150000 | 88497.40625 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.036180 | 820000 | 483807.25 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.001103 | 25000 | 14749.5693359 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000221 | 5000 | 2955.26245117 | | |
| | | Encapsulation Total: | | | | 0.044122 | 1000000 | 590009.4375 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000109 | 1000000 | 1457.57287598 | | |
| | | | | | TOTAL MASS (g) : | 0.074782 | | |