

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.152285

| 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 | 0.007011 | 1000000 | 46038.6523438 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.040950 | 975000 | 268903.5625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.001008 | 24000 | 6619.1640625 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000013 | 300 | 85.3662033081 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000029 | 700 | 190.432312012 | | |
| | | 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: | | | | 0.042000 | 1000000 | 275798.5 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.002272 | 1000000 | 14919.9121094 | | |
| | | External Plating Total: | | | | 0.002272 | 1000000 | 14919.9121094 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000336 | 1000000 | 2206.38818359 | | |
| Internal Plating Total: | | | | 0.000336 | 1000000 | 2206.38818359 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001672 | 750000 | 10979.4072266 | | |
| | | 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) | | 0.000557 | 250000 | 3657.61376953 | | |
| Die Attach Total: | | | | 0.002229 | 1000000 | 14637.0214844 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.013230 | 135000 | 86876.5234375 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.084280 | 860000 | 553435.6875 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000490 | 5000 | 3217.64941406 | | |
| | | Encapsulation Total: | | | | 0.098000 | 1000000 | 643529.8125 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000437 | 1000000 | 2869.61791992 | | |
| | | | | | TOTAL MASS (g) : | 0.152285 | | |