

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.642703

| 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 | 0.007566 | 1000000 | 11772.1474609 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.139415 | 975000 | 216919.625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.003432 | 24000 | 5339.94335938 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000043 | 300 | 66.9048843384 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000100 | 700 | 155.59274292 | | |
| | | 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: | | | | 0.142990 | 1000000 | 222482.0625 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.007167 | 1000000 | 11152.0566406 | | |
| | | External Plating Total: | | | | 0.007167 | 1000000 | 11152.0566406 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001144 | 1000000 | 1779.98095703 | | |
| Internal Plating Total: | | | | 0.001144 | 1000000 | 1779.98095703 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001748 | 750000 | 2719.76123047 | | |
| | | 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) | | 0.000583 | 250000 | 907.105712891 | | |
| Die Attach Total: | | | | 0.002331 | 1000000 | 3626.86694336 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.049522 | 103000 | 77052.6484375 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.430316 | 895000 | 669540.4375 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000962 | 2000 | 1496.80224609 | | |
| | | Encapsulation Total: | | | | 0.480800 | 1000000 | 748090 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000705 | 1000000 | 1096.92883301 | | |
| | | | | | TOTAL MASS (g) : | 0.642703 | | |