

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.247971

| 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 | 0.003584 | 1000000 | 14453.2822266 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000149 | 1000000 | 600.875854492 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.138021 | 975000 | 556600.625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.003397 | 24000 | 13699.1630859 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000042 | 300 | 169.374404907 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000099 | 700 | 399.239654541 | | |
| | | 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: | | | | 0.141559 | 1000000 | 570868.375 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.004771 | 1000000 | 19241.6113281 | | |
| | | External Plating Total: | | | | 0.004771 | 1000000 | 19241.6113281 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001132 | 1000000 | 4565.04345703 | | |
| Internal Plating Total: | | | | 0.001132 | 1000000 | 4565.04345703 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001021 | 750000 | 4117.41113281 | | |
| | | 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) | | 0.000340 | 250000 | 1371.12609863 | | |
| Die Attach Total: | | | | 0.001361 | 1000000 | 5488.53710938 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.009786 | 103000 | 39464.234375 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.085036 | 895000 | 342926.71875 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000190 | 2000 | 766.217529297 | | |
| | | Encapsulation Total: | | | | 0.095012 | 1000000 | 383157.15625 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000403 | 1000000 | 1625.18786621 | | |
| | | | | | TOTAL MASS (g) : | 0.247971 | | |