

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

SOC

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TOTAL MASS (g): 0.073311

| 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 | 0.001976 | 1000000 | 2693.7167909 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000082 | 1000000 | 118.5546582 | | |
| Lead Frame | A42 | Copper (Cu) | 7440-50-8 | 0.000000 | 0 | 0 | | |
| | | Iron (Fe) | 7439-89-6 | 0.014071 | 580000 | 191936.109375 | | |
| | | 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 | 13893.515625 | | |
| | | 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 | 330919.625 |
| | | Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 |
| Exter. Plating Sn | 7440-31-5 | | | 0.001477 | 1000000 | 20145.0664062 | | |
| External Plating Total: | | | | | | 0.001477 | 1000000 | 20145.0664062 |
| Inter. Plating Ni | 7440-02-0 | | | 0.000000 | 0 | 0 | | |
| Inter. Plating Ag | 7440-22-4 | | | 0.000194 | 1000000 | 2646.26586914 | | |
| Internal Plating Total: | | | | | | 0.000194 | 1000000 | 2646.26586914 |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000086 | 750000 | 9357.4140625 | | |
| | | 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) | | 0.000229 | 250000 | 3123.68481445 | | |
| | | Die Attach Total: | | | | 0.000915 | 1000000 | 12481.0996328 |
| | | Encapsulation | MULTIAROMATIC RESIN BzSb FREE | Resin (EP) | | 0.006633 | 150000 | 90477.734375 |
| | | | | Bromine (Br) | 40093-93-8 | 0.000000 | 0 | 0 |
| Silica (SiO2) | 60676-86-0 | | | 0.036262 | 820000 | 494633.46875 | | |
| Antimony Trioxide (Sb2O3) | 1309-64-4 | | | 0.000000 | 0 | 0 | | |
| Metal Hydroxide | | | | 0.001106 | 25000 | 15086.4443359 | | |
| Carbon Black (C) | 1333-86-4 | | | 0.000221 | 5000 | 3014.56054688 | | |
| Encapsulation Total: | | | | | | 0.044222 | 1000000 | 603212.25 |
| Bond Wire Estimated | AFW/TANAKA/Kn | Gold (Au) | 7440-57-5 | 0.000185 | 1000000 | 2521.50097656 | | |

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