

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1109cs8#trpbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 16:33:26)

TOTAL MASS (g) : 0.074768

| 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 | 0.003101 | 1000000 | 41475.046875 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.023653 | 975000 | 316352.53125 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000582 | 24000 | 7784.09472656 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000007 | 300 | 93.6231307983 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000017 | 700 | 227.370452881 | | |
| | | 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: | | | | 0.024259 | 1000000 | 324457.625 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.001477 | 1000000 | 19752.5 | | |
| | | External Plating Total: | | | | 0.001477 | 1000000 | 19752.5 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000194 | 1000000 | 2594.69799805 | | |
| Internal Plating Total: | | | | 0.000194 | 1000000 | 2594.69799805 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000935 | 750000 | 12505.375 | | |
| | | 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) | | 0.000312 | 250000 | 4172.91650391 | | |
| Die Attach Total: | | | | 0.001247 | 1000000 | 16678.2910156 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.006657 | 150000 | 89035.59375 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.036392 | 820000 | 486733.25 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.001110 | 25000 | 14845.9521484 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000222 | 5000 | 2969.19067383 | | |
| | | Encapsulation Total: | | | | 0.044381 | 1000000 | 593584 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000109 | 1000000 | 1457.84594727 | | |
| | | | | | TOTAL MASS (g) : | 0.074768 | | |