

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc2617cde-1#pbf

(Engineering Calculation)

DFN 4mm X 3mm Exp. Pad

(printed on: 2020-07-11 21:56:38)

TOTAL MASS (g) : 0.031326

| 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 | 0.001648 | 1000000 | 52608.3320312 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.012783 | 975000 | 408065.75 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000315 | 24000 | 10055.5976562 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000004 | 300 | 127.690132141 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000009 | 700 | 287.30279541 | | |
| | | 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: | | | | 0.013111 | 1000000 | 418536.3125 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.000607 | 1000000 | 19371.6992188 | | |
| | | External Plating Total: | | | | 0.000607 | 1000000 | 19371.6992188 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000295 | 1000000 | 9417.14746094 | | |
| Internal Plating Total: | | | | 0.000295 | 1000000 | 9417.14746094 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000798 | 750000 | 25474.1816406 | | |
| | | 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) | | 0.000266 | 250000 | 8491.39355469 | | |
| Die Attach Total: | | | | 0.001064 | 1000000 | 33965.5742188 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.001888 | 130000 | 60269.7421875 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.012487 | 860000 | 398616.65625 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000145 | 10000 | 4628.76708984 | | |
| | | Encapsulation Total: | | | | 0.014520 | 1000000 | 463515.15625 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000081 | 1000000 | 2585.72509766 | | |
| | | | | | TOTAL MASS (g) : | 0.031326 | | |