

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc3406b-2es5#trpbf

(Engineering Calculation)

TSOT-23

(printed on: 2020-07-11 19:29:52)

TOTAL MASS (g) : 0.012693

| 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 | 0.000709 | 1000000 | 55856.5234375 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.004485 | 975000 | 353337.78125 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000110 | 24000 | 8666.03320312 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000001 | 300 | 78.782119751 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000003 | 700 | 236.346374512 | | |
| | | 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: | | | | 0.004599 | 1000000 | 362318.96875 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.000635 | 1000000 | 50045.2148438 | | |
| | | External Plating Total: | | | | 0.000635 | 1000000 | 50045.2148438 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000080 | 1000000 | 6302.56933594 | | |
| Internal Plating Total: | | | | 0.000080 | 1000000 | 6302.56933594 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000461 | 750000 | 36318.5546875 | | |
| | | 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) | | 0.000154 | 250000 | 12132.4462891 | | |
| Die Attach Total: | | | | 0.000615 | 1000000 | 48451.0078125 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.000775 | 130000 | 61056.1445312 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.004947 | 830000 | 389735.15625 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000209 | 35000 | 16465.4628906 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000030 | 5000 | 2363.46337891 | | |
| | | Encapsulation Total: | | | | 0.005961 | 1000000 | 469620.1875 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000094 | 1000000 | 7405.51953125 | | |
| | | | | | TOTAL MASS (g) : | 0.012693 | | |