

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1450lig#trpbf

(Engineering Calculation)

SSOP

(printed on: 2020-07-11 19:21:16)

TOTAL MASS (g) : 0.163784

| 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 | 0.005144 | 1000000 | 31407.296875 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.075163 | 975000 | 458916.53125 | | |
| | | Iron (Fe) | 7439-89-6 | 0.001850 | 24000 | 11295.3925781 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000023 | 300 | 140.429214478 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000054 | 700 | 329.703369141 | | |
| | | 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: | | | | 0.077090 | 1000000 | 470682.09375 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.003400 | 1000000 | 20756.65625 | | |
| | | External Plating Total: | | | | 0.003400 | 1000000 | 20756.65625 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000617 | 1000000 | 3767.16601562 | | |
| Internal Plating Total: | | | | 0.000617 | 1000000 | 3767.16601562 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001325 | 750000 | 8089.94287109 | | |
| | | 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) | | 0.000442 | 250000 | 2698.68286133 | | |
| Die Attach Total: | | | | 0.001767 | 1000000 | 10788.6259766 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.007726 | 103000 | 47172.0039062 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.067134 | 895000 | 409894.53125 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000150 | 2000 | 915.842651367 | | |
| | | Encapsulation Total: | | | | 0.075010 | 1000000 | 457982.40625 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000756 | 1000000 | 4615.84716797 | | |
| | | | | | TOTAL MASS (g) : | 0.163784 | | |