

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

TSSOP Exp. Pad

(printed on: 2020-07-11 16:48:51)

TOTAL MASS (g) : 0.067717

| 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 | 0.003666 | 1000000 | 54137.140625 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.025576 | 975000 | 377690 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000630 | 24000 | 9303.43652344 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000008 | 300 | 118.138877869 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000018 | 700 | 265.8125 | | |
| | | 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: | | | | 0.026232 | 1000000 | 387377.375 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.002364 | 1000000 | 34908.703125 | | |
| | | External Plating Total: | | | | 0.002364 | 1000000 | 34908.703125 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001030 | 1000000 | 15210.3818359 | | |
| Internal Plating Total: | | | | 0.001030 | 1000000 | 15210.3818359 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001040 | 750000 | 15358.0537109 | | |
| | | 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) | | 0.000347 | 250000 | 5124.27392578 | | |
| Die Attach Total: | | | | 0.001387 | 1000000 | 20482.328125 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.004875 | 150000 | 71990.875 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.026650 | 820000 | 393550.15625 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000813 | 25000 | 12005.8632812 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000163 | 5000 | 2407.07983398 | | |
| | | Encapsulation Total: | | | | 0.032501 | 1000000 | 479953.96875 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000537 | 1000000 | 7930.07226562 | | |
| | | | | | TOTAL MASS (g) : | 0.067717 | | |