

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

PDIP

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TOTAL MASS (g) : 0.499338

| 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 | 0.002472 | 1000000 | 4950.55126953 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.149760 | 975000 | 299916.90625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.003686 | 24000 | 7381.76904297 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000046 | 300 | 92.1219177246 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000108 | 700 | 216.286239624 | | |
| | | 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: | | | | 0.153600 | 1000000 | 307607.125 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.012410 | 1000000 | 24853.4707031 | | |
| | | External Plating Total: | | | | 0.012410 | 1000000 | 24853.4707031 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001228 | 1000000 | 2459.25463867 | | |
| Internal Plating Total: | | | | 0.001228 | 1000000 | 2459.25463867 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000794 | 750000 | 1590.10424805 | | |
| | | 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) | | 0.000265 | 250000 | 530.702331543 | | |
| Die Attach Total: | | | | 0.001059 | 1000000 | 2120.80688477 | | |
| Encapsulation | FILLED EPOXY RESIN | Resin (EP) | | 0.078816 | 240000 | 157840.875 | | |
| | | Bromine (Br) | 40039-93-8 | 0.003284 | 10000 | 6576.70410156 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.236448 | 720000 | 473522.65625 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.009852 | 30000 | 19730.109375 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000000 | 0 | 0 | | |
| | | Encapsulation Total: | | | | 0.328400 | 1000000 | 657670.3125 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000169 | 1000000 | 338.447906494 | | |
| | | | | | TOTAL MASS (g) : | 0.499338 | | |