

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

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TOTAL MASS (g) : 0.132407

| 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 | 0.001877 | 1000000 | 14175.9404297 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | A42 | Copper (Cu) | 7440-50-8 | 0.000000 | 0 | 0 | | |
| | | Iron (Fe) | 7439-89-6 | 0.025972 | 580000 | 196152.109375 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000000 | 0 | 0 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000000 | 0 | 0 | | |
| | | Nickel (Ni) | 7440-02-0 | 0.018808 | 420000 | 142046.390625 | | |
| | | 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: | | | | 0.044780 | 1000000 | 338198.5 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.002585 | 1000000 | 19526.3769531 | | |
| | | External Plating Total: | | | | 0.002585 | 1000000 | 19526.3769531 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000358 | 1000000 | 2703.77539062 | | |
| Internal Plating Total: | | | | 0.000358 | 1000000 | 2703.77539062 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000658 | 750000 | 4969.50927734 | | |
| | | 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) | | 0.000219 | 250000 | 1653.9855957 | | |
| Die Attach Total: | | | | 0.000877 | 1000000 | 6623.49462891 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.010624 | 130000 | 80237.1796875 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.067828 | 830000 | 512267.28125 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.002860 | 35000 | 21599.9921875 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000409 | 5000 | 3088.95019531 | | |
| | | Encapsulation Total: | | | | 0.081721 | 1000000 | 617193.375 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000209 | 1000000 | 1578.46118164 | | |
| | | | | | TOTAL MASS (g) : | 0.132407 | | |