

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DDPAK

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TOTAL MASS (g) : 1.37354

| 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 | 0.004012 | 1000000 | 2920.92016602 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.804033 | 970000 | 585372.9375 | | |
| | | Iron (Fe) | 7439-89-6 | 0.021551 | 26000 | 15690.1181641 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000829 | 1000 | 603.550109863 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.001243 | 1500 | 904.961120605 | | |
| | | 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 | 0.001243 | 1500 | 904.961120605 | | |
| Lead Frame Total: | | | | 0.828899 | 1000000 | 603476.5625 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.009685 | 1000000 | 7050.93603516 | | |
| | | External Plating Total: | | | | 0.009685 | 1000000 | 7050.93603516 |
| | | Inter. Plating Ni | 7440-02-0 | 0.005000 | 781250 | 3640.22949219 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001400 | 218750 | 1019.26434326 | | |
| | | Internal Plating Total: | | | | 0.006400 | 1000000 | 4659.49414062 |
| Die Attach | 95Pb / 5 Sn | Silver (Ag) | 7440-22-4 | 0.000000 | 0 | 0 | | |
| | | Tin (Sn) | 7440-31-5 | 0.000098 | 50000 | 71.3484954834 | | |
| | | Lead (Pb) | 7439-92-1 | 0.001853 | 950000 | 1349.06921387 | | |
| | | 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) | | 0.000000 | 0 | 0 | | |
| Die Attach Total: | | | | 0.001951 | 1000000 | 1420.41760254 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.053704 | 103000 | 39098.9804688 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.466653 | 895000 | 339744.8125 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.001043 | 2000 | 759.351928711 | | |
| | | Encapsulation Total: | | | | 0.521400 | 1000000 | 379603.15625 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.001193 | 1000000 | 868.558837891 | | |
| | | | | | TOTAL MASS (g) : | 1.37354 | | |