

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t3015mpq-12#trpbf

(Engineering Calculation)

DDPAK

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TOTAL MASS (g) : 1.395845

| 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 | 0.002740 | 1000000 | 1962.96838379 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.828089 | 970000 | 593252.75 | | |
| | | Iron (Fe) | 7439-89-6 | 0.022196 | 26000 | 15901.4775391 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000854 | 1000 | 611.815734863 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.001281 | 1500 | 917.723510742 | | |
| | | 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 | 0.001281 | 1500 | 917.723510742 | | |
| Lead Frame Total: | | | | 0.853701 | 1000000 | 611601.5 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.009978 | 1000000 | 7148.51367188 | | |
| | | External Plating Total: | | | | 0.009978 | 1000000 | 7148.51367188 |
| | | Inter. Plating Ni | 7440-02-0 | 0.004000 | 740740.75 | 2865.64746094 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001400 | 259259.265625 | 1002.9765625 | | |
| | | Internal Plating Total: | | | | 0.005400 | 1000000 | 3868.62402344 |
| Die Attach | 95Pb / 5 Sn | Silver (Ag) | 7440-22-4 | 0.000000 | 0 | 0 | | |
| | | Tin (Sn) | 7440-31-5 | 0.000075 | 50000 | 53.7308921814 | | |
| | | Lead (Pb) | 7439-92-1 | 0.001433 | 950000 | 1026.61816406 | | |
| | | 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: | | | | 0.001508 | 1000000 | 1080.34899902 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.053704 | 103000 | 38474.1835938 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.466653 | 895000 | 334315.71875 | | |
| | | 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 | 747.217590332 | | |
| | | Encapsulation Total: | | | | 0.521400 | 1000000 | 373537.125 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.001118 | 1000000 | 800.948425293 | | |
| | | | | | TOTAL MASS (g) : | 1.395845 | | |