

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 18:46:59)

TOTAL MASS (g) : 0.023163

| 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 | 0.001540 | 1000000 | 66486.03125 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.008752 | 975000 | 377847.875 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000215 | 24000 | 9282.140625 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000003 | 300 | 129.518249512 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000006 | 700 | 259.036499023 | | |
| | | 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: | | | | 0.008976 | 1000000 | 387518.625 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.000413 | 1000000 | 17820.0351562 | | |
| | | External Plating Total: | | | | 0.000413 | 1000000 | 17820.0351562 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000203 | 1000000 | 8764.06738281 | | |
| Internal Plating Total: | | | | 0.000203 | 1000000 | 8764.06738281 | | |
| Die Attach | ELECTRICALLY INSULATING ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000000 | 0 | 0 | | |
| | | Tin (Sn) | 7440-31-5 | 0.000000 | 0 | 0 | | |
| | | Lead (Pb) | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.000008 | 50000 | 345.381988525 | | |
| | | Indium (In) | 7440-74-6 | 0.000000 | 0 | 0 | | |
| | | Metal Oxide | | 0.000050 | 300000 | 2158.63745117 | | |
| | | Antimony (Sb) | 7440-36-0 | 0.000000 | 0 | 0 | | |
| | | Resin (EP) | | 0.000109 | 650000 | 4705.82958984 | | |
| Die Attach Total: | | | | 0.000167 | 1000000 | 7209.84912109 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.001534 | 130000 | 66227 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.010148 | 860000 | 438117.0625 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000118 | 10000 | 5094.38427734 | | |
| | | Encapsulation Total: | | | | 0.011800 | 1000000 | 509438.46875 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000064 | 1000000 | 2763.0559082 | | |
| | | | | | TOTAL MASS (g) : | 0.023163 | | |