

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

FCOL-QFN 3mm X 4mm Exp.Pad

(printed on: 2020-07-11 21:29:17)

TOTAL MASS (g) : 0.162312

| 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 | 0.002204 | 1000000 | 13578.8046875 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.013133 | 975000 | 80912.1796875 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000323 | 24000 | 1989.99719238 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000004 | 299.999908447 | 24.6439285278 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000009 | 700 | 55.4488449097 | | |
| | | 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: | | | | 0.013469 | 1000000 | 82982.2734375 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.000626 | 1000000 | 3855.35009766 | | |
| | | External Plating Total: | | | | 0.000626 | 1000000 | 3855.35009766 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000302 | 1000000 | 1860.61669922 | | |
| | | Internal Plating Total: | | | | 0.000302 | 1000000 | 1860.61669922 |
| Die Attach | SnAg CAP | Silver (Ag) | 7440-22-4 | 0.000040 | 25000 | 246.43927002 | | |
| | | Tin (Sn) | 7440-31-5 | 0.001571 | 975000 | 9678.90332031 | | |
| | | 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) | | 0.000000 | 0 | 0 | | |
| Die Attach Total: | | | | 0.001611 | 1000000 | 9925.34277344 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.018733 | 130000 | 115413.6875 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.123926 | 860000 | 763505.875 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.001441 | 10000 | 8877.97558594 | | |
| | | Encapsulation Total: | | | | 0.144100 | 1000000 | 887797.5625 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000000 | 0 | 0 | | |
| | | | | | TOTAL MASS (g) : | 0.162312 | | |