

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

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(printed on: 2020-07-11 19:11:32)

TOTAL MASS (g) : 0.135609

| 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 | 0.004397 | 1000000 | 32423.9960938 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000183 | 1000000 | 1349.46350098 | | |
| Lead Frame | A42 | Copper (Cu) | 7440-50-8 | 0.000000 | 0 | 0 | | |
| | | Iron (Fe) | 7439-89-6 | 0.025972 | 580000 | 191520.578125 | | |
| | | 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 | 138692.390625 | | |
| | | 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 | 330212.96875 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.002585 | 1000000 | 19065.3203125 | | |
| | | External Plating Total: | | | | 0.002585 | 1000000 | 19065.3203125 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000358 | 1000000 | 2639.93383789 | | |
| Internal Plating Total: | | | | 0.000358 | 1000000 | 2639.93383789 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001189 | 750000 | 8767.82519531 | | |
| | | 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) | | 0.000396 | 250000 | 2920.15063477 | | |
| Die Attach Total: | | | | 0.001585 | 1000000 | 11687.9765625 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.010578 | 130000 | 78003.4140625 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.067535 | 830000 | 498011.03125 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.002848 | 35000 | 21001.4863281 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000407 | 5000 | 3001.26586914 | | |
| | | Encapsulation Total: | | | | 0.081368 | 1000000 | 600017.1875 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000353 | 1000000 | 2603.06347656 | | |
| | | | | | TOTAL MASS (g) : | 0.135609 | | |