

LINEAR TECHNOLOGY MATERIALS DECLARATION

|                                   |                                  |                           |            |                      |                               |                                 |          |
|-----------------------------------|----------------------------------|---------------------------|------------|----------------------|-------------------------------|---------------------------------|----------|
| 1tc2984hlx#pbf                    |                                  | (Engineering Calculation) |            |                      |                               | LQFP 7mm X 7mm                  |          |
| (printed on: 2020-07-11 19:24:01) |                                  |                           |            |                      | TOTAL MASS (g) :              |                                 | 0.139526 |
| 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  | 0.000851             | 1000000                       | 6099.22753906                   |          |
| Die Coat                          | Dow Corning                      | Silicone                  | 69430-27-9 | 0.000000             | 0                             | 0                               |          |
| Lead Frame                        | Cu                               | Copper (Cu)               | 7440-50-8  | 0.048877             | 975000                        | 350307.78125                    |          |
|                                   |                                  | Iron (Fe)                 | 7439-89-6  | 0.001203             | 24000                         | 8622.05664062                   |          |
|                                   |                                  | Phosphorus (P)            | 7723-14-0  | 0.000015             | 300                           | 107.50693512                    |          |
|                                   |                                  | Zinc (Zn)                 | 7440-66-6  | 0.000035             | 700                           | 250.849517822                   |          |
|                                   |                                  | 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:         |            | 0.050130             | 1000000                       | 359288.1875                     |          |
| Plating                           | PMI                              | Exter. Plating Pb         | 7439-92-1  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Exter. Plating Sn         | 7440-31-5  | 0.005224             | 1000000                       | 37440.3007812                   |          |
|                                   |                                  | External Plating Total:   |            | 0.005224             | 1000000                       | 37440.3007812                   |          |
|                                   |                                  | Inter. Plating Ni         | 7440-02-0  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Inter. Plating Ag         | 7440-22-4  | 0.005200             | 1000000                       | 37269.0742188                   |          |
|                                   |                                  | Internal Plating Total:   |            | 0.005200             | 1000000                       | 37269.0742188                   |          |
| Die Attach                        | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)               | 7440-22-4  | 0.000409             | 750000                        | 2931.35595703                   |          |
|                                   |                                  | 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)                |            | 0.000136             | 250000                        | 974.729614258                   |          |
|                                   |                                  | Die Attach Total:         |            | 0.000545             | 1000000                       | 3906.08569336                   |          |
| Encapsulation                     | MULTI-AROMATIC RESIN Br/Sb FREE  | Resin (EP)                |            | 0.007929             | 103000                        | 56828.171875                    |          |
|                                   |                                  | Bromine (Br)              | 40039-93-8 | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Silica (SiO2)             | 60676-86-0 | 0.068897             | 895000                        | 493793.71875                    |          |
|                                   |                                  | Antimony Trioxide (Sb2O3) | 1309-64-4  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Metal Hydroxide           |            | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Carbon Black (C)          | 1333-86-4  | 0.000154             | 2000                          | 1103.73791504                   |          |
|                                   |                                  | Encapsulation Total:      |            | 0.076980             | 1000000                       | 551725.625                      |          |
| Bond Wire Estimated               | AFW/TANAKA/ Kn                   | Gold (Au)                 | 7440-57-5  | 0.000596             | 1000000                       | 4271.609375                     |          |
|                                   |                                  |                           |            |                      | TOTAL MASS (g) :              |                                 | 0.139526 |