

LINEAR TECHNOLOGY MATERIALS DECLARATION

|                                   |                                  |                           |            |                      |                               |                                 |          |
|-----------------------------------|----------------------------------|---------------------------|------------|----------------------|-------------------------------|---------------------------------|----------|
| 1tc3104imse#trpbf                 |                                  | (Engineering Calculation) |            |                      |                               | MSOP-Exposed                    |          |
| (printed on: 2020-07-11 17:36:02) |                                  |                           |            |                      | TOTAL MASS (g) :              |                                 | 0.035942 |
| 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  | 0.001311             | 1000000                       | 36475.40625                     |          |
| Die Coat                          | Dow Corning                      | Silicone                  | 69430-27-9 | 0.000000             | 0                             | 0                               |          |
| Lead Frame                        | Cu                               | Copper (Cu)               | 7440-50-8  | 0.013845             | 975000                        | 385203.6875                     |          |
|                                   |                                  | Iron (Fe)                 | 7439-89-6  | 0.000341             | 24000                         | 9487.50097656                   |          |
|                                   |                                  | Phosphorus (P)            | 7723-14-0  | 0.000004             | 300                           | 111.290336609                   |          |
|                                   |                                  | Zinc (Zn)                 | 7440-66-6  | 0.000010             | 700                           | 278.225830078                   |          |
|                                   |                                  | 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:         |            | 0.014200             | 1000000                       | 395080.6875                     |          |
| Plating                           | PMI                              | Exter. Plating Pb         | 7439-92-1  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Exter. Plating Sn         | 7440-31-5  | 0.000710             | 1000000                       | 19754.7285156                   |          |
|                                   |                                  | External Plating Total:   |            | 0.000710             | 1000000                       | 19754.7285156                   |          |
|                                   |                                  | Inter. Plating Ni         | 7440-02-0  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Inter. Plating Ag         | 7440-22-4  | 0.000086             | 1000000                       | 2392.7421875                    |          |
|                                   |                                  | Internal Plating Total:   |            | 0.000086             | 1000000                       | 2392.7421875                    |          |
| Die Attach                        | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)               | 7440-22-4  | 0.000521             | 750000                        | 14495.5664062                   |          |
|                                   |                                  | 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)                |            | 0.000174             | 250000                        | 4841.12939453                   |          |
|                                   |                                  | Die Attach Total:         |            | 0.000695             | 1000000                       | 19336.6953125                   |          |
| Encapsulation                     | MULTI-AROMATIC RESIN Br/Sb FREE  | Resin (EP)                |            | 0.002439             | 130000                        | 67859.2734375                   |          |
|                                   |                                  | Bromine (Br)              | 40039-93-8 | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Silica (SiO2)             | 60676-86-0 | 0.015571             | 830000                        | 433225.4375                     |          |
|                                   |                                  | Antimony Trioxide (Sb2O3) | 1309-64-4  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Metal Hydroxide           |            | 0.000657             | 35000                         | 18279.4375                      |          |
|                                   |                                  | Carbon Black (C)          | 1333-86-4  | 0.000094             | 5000                          | 2615.32275391                   |          |
|                                   |                                  | Encapsulation Total:      |            | 0.018761             | 1000000                       | 521979.4375                     |          |
| Bond Wire Estimated               | AFW/TANAKA/ Kn                   | Gold (Au)                 | 7440-57-5  | 0.000179             | 1000000                       | 4980.2421875                    |          |
|                                   |                                  |                           |            |                      | TOTAL MASS (g) :              |                                 | 0.035942 |