

LINEAR TECHNOLOGY MATERIALS DECLARATION

|                                   |                                  |                           |            |                      |                               |                                 |          |
|-----------------------------------|----------------------------------|---------------------------|------------|----------------------|-------------------------------|---------------------------------|----------|
| 1t1210xfe#trpbf                   |                                  | (Engineering Calculation) |            |                      |                               | TSSOP Exposed Pad               |          |
| (printed on: 2020-07-11 18:09:18) |                                  |                           |            |                      | TOTAL MASS (g) :              |                                 | 0.070044 |
| 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  | 0.004913             | 1000000                       | 70141.71875                     |          |
| Die Coat                          | Dow Corning                      | Silicone                  | 69430-27-9 | 0.000000             | 0                             | 0                               |          |
| Lead Frame                        | Cu                               | Copper (Cu)               | 7440-50-8  | 0.025576             | 975000                        | 365142.375                      |          |
|                                   |                                  | Iron (Fe)                 | 7439-89-6  | 0.000630             | 24000                         | 8994.35839844                   |          |
|                                   |                                  | Phosphorus (P)            | 7723-14-0  | 0.000008             | 300                           | 114.214073181                   |          |
|                                   |                                  | Zinc (Zn)                 | 7440-66-6  | 0.000018             | 700                           | 256.981658936                   |          |
|                                   |                                  | 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:         |            | 0.026232             | 1000000                       | 374507.96875                    |          |
| Plating                           | PMI                              | Exter. Plating Pb         | 7439-92-1  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Exter. Plating Sn         | 7440-31-5  | 0.002364             | 1000000                       | 33748.96875                     |          |
|                                   |                                  | External Plating Total:   |            | 0.002364             | 1000000                       | 33748.96875                     |          |
|                                   |                                  | Inter. Plating Ni         | 7440-02-0  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Inter. Plating Ag         | 7440-22-4  | 0.001030             | 1000000                       | 14705.0625                      |          |
|                                   |                                  | Internal Plating Total:   |            | 0.001030             | 1000000                       | 14705.0625                      |          |
| Die Attach                        | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)               | 7440-22-4  | 0.001299             | 750000                        | 18545.5097656                   |          |
|                                   |                                  | 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)                |            | 0.000433             | 250000                        | 6181.83691406                   |          |
|                                   |                                  | Die Attach Total:         |            | 0.001732             | 1000000                       | 24727.3476562                   |          |
| Encapsulation                     | MULTI-AROMATIC RESIN Br/Sb FREE  | Resin (EP)                |            | 0.003348             | 103000                        | 47798.59375                     |          |
|                                   |                                  | Bromine (Br)              | 40039-93-8 | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Silica (SiO2)             | 60676-86-0 | 0.029088             | 895000                        | 415282.375                      |          |
|                                   |                                  | Antimony Trioxide (Sb2O3) | 1309-64-4  | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Metal Hydroxide           |            | 0.000000             | 0                             | 0                               |          |
|                                   |                                  | Carbon Black (C)          | 1333-86-4  | 0.000065             | 2000                          | 927.989379883                   |          |
|                                   |                                  | Encapsulation Total:      |            | 0.032501             | 1000000                       | 464008.96875                    |          |
| Bond Wire Estimated               | AFW/TANAKA/ Kn                   | Gold (Au)                 | 7440-57-5  | 0.001272             | 1000000                       | 18160.0371094                   |          |
|                                   |                                  |                           |            |                      | TOTAL MASS (g) :              |                                 | 0.070044 |