

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t6002cdhc#pbf

(Engineering Calculation)

DFN 5mm X 3mm Exp. Pad

| (printed on: 2020-07-11 17:23:12) |                                  |                           |            |                      | TOTAL MASS (g) : 0.038032     |                                 |
|-----------------------------------|----------------------------------|---------------------------|------------|----------------------|-------------------------------|---------------------------------|
| 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  | 0.000973             | 1000000                       | 25583.7207031                   |
| Die Coat                          | Dow Corning                      | Silicone                  | 69430-27-9 | 0.000000             | 0                             | 0                               |
| Lead Frame                        | Cu                               | Copper (Cu)               | 7440-50-8  | 0.017069             | 974800.0625                   | 448806.28125                    |
|                                   |                                  | Iron (Fe)                 | 7439-89-6  | 0.000411             | 23500                         | 10806.6894531                   |
|                                   |                                  | Phosphorus (P)            | 7723-14-0  | 0.000015             | 850                           | 394.404724121                   |
|                                   |                                  | Zinc (Zn)                 | 7440-66-6  | 0.000015             | 850                           | 394.404724121                   |
|                                   |                                  | 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:         |            | 0.017510             | 1000000                       | 460401.8125                     |
| Plating                           | PMI                              | Exter. Plating Pb         | 7439-92-1  | 0.000000             | 0                             | 0                               |
|                                   |                                  | Exter. Plating Sn         | 7440-31-5  | 0.000817             | 1000000                       | 21481.9648438                   |
|                                   |                                  | External Plating Total:   |            | 0.000817             | 1000000                       | 21481.9648438                   |
|                                   |                                  | Inter. Plating Ni         | 7440-02-0  | 0.000000             | 0                             | 0                               |
|                                   |                                  | Inter. Plating Ag         | 7440-22-4  | 0.000391             | 1000000                       | 10280.8164062                   |
|                                   |                                  | Internal Plating Total:   |            | 0.000391             | 1000000                       | 10280.8164062                   |
| Die Attach                        | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)               | 7440-22-4  | 0.000558             | 750000                        | 14671.8554688                   |
|                                   |                                  | 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)                |            | 0.000186             | 250000                        | 4890.61865234                   |
|                                   |                                  | Die Attach Total:         |            | 0.000744             | 1000000                       | 19562.4746094                   |
| Encapsulation                     | MULTI-AROMATIC RESIN Br/Sb FREE  | Resin (EP)                |            | 0.002274             | 130000                        | 59791.7578125                   |
|                                   |                                  | Bromine (Br)              | 40039-93-8 | 0.000000             | 0                             | 0                               |
|                                   |                                  | Silica (SiO2)             | 60676-86-0 | 0.015041             | 860000                        | 395482.78125                    |
|                                   |                                  | Antimony Trioxide (Sb2O3) | 1309-64-4  | 0.000000             | 0                             | 0                               |
|                                   |                                  | Metal Hydroxide           |            | 0.000000             | 0                             | 0                               |
|                                   |                                  | Carbon Black (C)          | 1333-86-4  | 0.000175             | 10000                         | 4601.38818359                   |
|                                   |                                  | Encapsulation Total:      |            | 0.017490             | 1000000                       | 459875.875                      |
| Bond Wire Estimated               | AFW/TANAKA/ Kn                   | Gold (Au)                 | 7440-57-5  | 0.000107             | 1000000                       | 2813.42016602                   |
|                                   |                                  |                           |            |                      | TOTAL MASS (g) :              | 0.038032                        |