

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc1385cg#trpbf

(Engineering Calculation)

SSOP

(printed on: 2020-07-11 21:35:54)

**TOTAL MASS (g) : 0.149771**

| 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  | 0.003860             | 1000000                       | 25772.7421875                   |                |                      |
| Die Coat                       | Dow Corning                      | Silicone                       | 69430-27-9 | 0.000000             | 0                             | 0                               |                |                      |
| Lead Frame                     | Cu                               | Copper (Cu)                    | 7440-50-8  | 0.058880             | 975000                        | 393134.5                        |                |                      |
|                                |                                  | Iron (Fe)                      | 7439-89-6  | 0.001449             | 24000                         | 9674.79394531                   |                |                      |
|                                |                                  | Phosphorus (P)                 | 7723-14-0  | 0.000018             | 300                           | 120.183776855                   |                |                      |
|                                |                                  | Zinc (Zn)                      | 7440-66-6  | 0.000042             | 700                           | 280.42880249                    |                |                      |
|                                |                                  | 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                               |                |                      |
| <b>Lead Frame Total:</b>       |                                  |                                |            | <b>0.060389</b>      | <b>1000000</b>                | <b>403209.90625</b>             |                |                      |
| Plating                        | PMI                              | Exter. Plating Pb              | 7439-92-1  | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Exter. Plating Sn              | 7440-31-5  | 0.002831             | 1000000                       | 18899.7871094                   |                |                      |
|                                |                                  | <b>External Plating Total:</b> |            |                      |                               | <b>0.002831</b>                 | <b>1000000</b> | <b>18899.7871094</b> |
|                                |                                  | Inter. Plating Ni              | 7440-02-0  | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Inter. Plating Ag              | 7440-22-4  | 0.000483             | 1000000                       | 3224.93139648                   |                |                      |
| <b>Internal Plating Total:</b> |                                  |                                |            | <b>0.000483</b>      | <b>1000000</b>                | <b>3224.93139648</b>            |                |                      |
| Die Attach                     | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)                    | 7440-22-4  | 0.001080             | 750000                        | 7211.02636719                   |                |                      |
|                                |                                  | 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)                     |            | 0.000360             | 250000                        | 2403.67553711                   |                |                      |
| <b>Die Attach Total:</b>       |                                  |                                |            | <b>0.001440</b>      | <b>1000000</b>                | <b>9614.70214844</b>            |                |                      |
| Encapsulation                  | MULTI-AROMATIC RESIN Br/Sb FREE  | Resin (EP)                     |            | 0.008259             | 103000                        | 55144.3242188                   |                |                      |
|                                |                                  | Bromine (Br)                   | 40039-93-8 | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Silica (SiO2)                  | 60676-86-0 | 0.071761             | 895000                        | 479139.3125                     |                |                      |
|                                |                                  | Antimony Trioxide (Sb2O3)      | 1309-64-4  | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Metal Hydroxide                |            | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Carbon Black (C)               | 1333-86-4  | 0.000160             | 2000                          | 1068.3001709                    |                |                      |
|                                |                                  | <b>Encapsulation Total:</b>    |            |                      |                               | <b>0.080180</b>                 | <b>1000000</b> | <b>535351.9375</b>   |
| Bond Wire Estimated            | AFW/TANAKA/ Kn                   | Gold (Au)                      | 7440-57-5  | 0.000588             | 1000000                       | 3926.00341797                   |                |                      |
|                                |                                  |                                |            |                      | <b>TOTAL MASS (g) :</b>       | <b>0.149771</b>                 |                |                      |