

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

SOC

LT1054CS8#TRPBF

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TOTAL MASS (g): 0.076299

| 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                     | 0.004299             | 1000000                       | 5516.45625                      |                |                      |
| Die Coat                       | Dow Corning                      | Silicone                 | 69430-27-9                    | 0.000000             | 0                             | 0                               |                |                      |
| Lead Frame                     | Cu                               | Copper (Cu)              | 7440-50-8                     | 0.023653             | 975000                        | 31004.65625                     |                |                      |
|                                |                                  | Iron (Fe)                | 7439-89-6                     | 0.000582             | 24000                         | 7627.8990234                    |                |                      |
|                                |                                  | Phosphorus (P)           | 7723-14-0                     | 0.000007             | 300                           | 91.7444902065                   |                |                      |
|                                |                                  | Zinc (Zn)                | 7440-66-6                     | 0.000017             | 700                           | 222.808074951                   |                |                      |
|                                |                                  | 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>0.024259</b>                 | <b>1000000</b> | <b>317947.09375</b>  |
|                                |                                  | Plating                  | PMI                           | Exter. Plating Pb    | 7439-92-1                     | 0.000000                        | 0              | 0                    |
| Exter. Plating Sn              | 7440-31-5                        |                          |                               | 0.001477             | 1000000                       | 19356.1484375                   |                |                      |
| <b>External Plating Total:</b> |                                  |                          |                               |                      |                               | <b>0.001477</b>                 | <b>1000000</b> | <b>19356.1484375</b> |
| Inter. Plating Ni              | 7440-02-0                        |                          |                               | 0.000000             | 0                             | 0                               |                |                      |
| Inter. Plating Ag              | 7440-22-4                        |                          |                               | 0.000194             | 1000000                       | 2542.63305664                   |                |                      |
| <b>Internal Plating Total:</b> |                                  |                          |                               |                      |                               | <b>0.000194</b>                 | <b>1000000</b> | <b>2542.63305664</b> |
| Die Attach                     | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)              | 7440-22-4                     | 0.001150             | 750000                        | 15072.3105469                   |                |                      |
|                                |                                  | 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)               |                               | 0.000183             | 250000                        | 5019.734235                     |                |                      |
|                                |                                  | <b>Die Attach Total:</b> |                               |                      |                               | <b>0.001333</b>                 | <b>1000000</b> | <b>20092.0449219</b> |
|                                |                                  | Encapsulation            | MULTIAROMATIC RESIN BzSb FREE | Resin (EP)           |                               | 0.006657                        | 150000         | 87249.015625         |
|                                |                                  |                          |                               | Bromine (Br)         | 40093-93-8                    | 0.000000                        | 0              | 0                    |
| Silica (SiO2)                  | 60676-86-0                       |                          |                               | 0.036392             | 820000                        | 476966.53125                    |                |                      |
| Antimony Trioxide (Sb2O3)      | 1309-64-4                        |                          |                               | 0.000000             | 0                             | 0                               |                |                      |
| Metal Hydroxide                |                                  |                          |                               | 0.001110             | 25000                         | 14548.0546875                   |                |                      |
| Carbon Black (C)               | 1333-86-4                        |                          |                               | 0.000222             | 5000                          | 2909.61132812                   |                |                      |
| <b>Encapsulation Total:</b>    |                                  |                          |                               |                      |                               | <b>0.044381</b>                 | <b>1000000</b> | <b>581673.1875</b>   |
| Bond Wire Estimated            | AFW/TANAKA/Kn                    | Gold (Au)                | 7440-57-5                     | 0.000246             | 1000000                       | 3224.1631836                    |                |                      |

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