

**LINEAR TECHNOLOGY MATERIALS DECLARATION**

ltc2632cts8-lz12#trmpbf

(Engineering Calculation)

TSOT-23

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**TOTAL MASS (g) : 0.012478**

| 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  | 0.000710             | 1000000                       | 56901.5546875                   |                |                      |
| Die Coat                       | Dow Corning                      | Silicone                       | 69430-27-9 | 0.000000             | 0                             | 0                               |                |                      |
| Lead Frame                     | Cu                               | Copper (Cu)                    | 7440-50-8  | 0.004582             | 975000                        | 367215.40625                    |                |                      |
|                                |                                  | Iron (Fe)                      | 7439-89-6  | 0.000113             | 24000                         | 9056.16308594                   |                |                      |
|                                |                                  | Phosphorus (P)                 | 7723-14-0  | 0.000001             | 300                           | 80.1430358887                   |                |                      |
|                                |                                  | Zinc (Zn)                      | 7440-66-6  | 0.000003             | 700                           | 240.429122925                   |                |                      |
|                                |                                  | 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>0.004699</b>      | <b>1000000</b>                | <b>376592.125</b>               |                |                      |
| Plating                        | PMI                              | Exter. Plating Pb              | 7439-92-1  | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Exter. Plating Sn              | 7440-31-5  | 0.000663             | 1000000                       | 53109.9882812                   |                |                      |
|                                |                                  | <b>External Plating Total:</b> |            |                      |                               | <b>0.000663</b>                 | <b>1000000</b> | <b>53109.9882812</b> |
|                                |                                  | Inter. Plating Ni              | 7440-02-0  | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Inter. Plating Ag              | 7440-22-4  | 0.000080             | 1000000                       | 6411.44287109                   |                |                      |
| <b>Internal Plating Total:</b> |                                  |                                |            | <b>0.000080</b>      | <b>1000000</b>                | <b>6411.44287109</b>            |                |                      |
| Die Attach                     | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)                    | 7440-22-4  | 0.000206             | 800000                        | 16509.4667969                   |                |                      |
|                                |                                  | 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)                     |            | 0.000051             | 200000                        | 4087.29492188                   |                |                      |
| <b>Die Attach Total:</b>       |                                  |                                |            | <b>0.000257</b>      | <b>1000000</b>                | <b>20596.7617188</b>            |                |                      |
| Encapsulation                  | MULTI-AROMATIC RESIN Br/Sb FREE  | Resin (EP)                     |            | 0.000347             | 58000                         | 27809.6328125                   |                |                      |
|                                |                                  | Bromine (Br)                   | 40039-93-8 | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Silica (SiO2)                  | 60676-86-0 | 0.005322             | 890000                        | 426521.25                       |                |                      |
|                                |                                  | Antimony Trioxide (Sb2O3)      | 1309-64-4  | 0.000000             | 0                             | 0                               |                |                      |
|                                |                                  | Metal Hydroxide                |            | 0.000299             | 50000                         | 23962.7675781                   |                |                      |
|                                |                                  | Carbon Black (C)               | 1333-86-4  | 0.000012             | 2000                          | 961.716491699                   |                |                      |
|                                |                                  | <b>Encapsulation Total:</b>    |            |                      |                               | <b>0.005980</b>                 | <b>1000000</b> | <b>479255.34375</b>  |
| Bond Wire Estimated            | AFW/TANAKA/ Kn                   | Gold (Au)                      | 7440-57-5  | 0.000089             | 1000000                       | 7132.73046875                   |                |                      |
|                                |                                  |                                |            |                      | <b>TOTAL MASS (g) :</b>       | <b>0.012478</b>                 |                |                      |