

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSOP

LTC665SCHMS8-3#TRPBF

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TOTAL MASS (g): 0.028018

| 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                     | 0.002529             | 1000000                       | 9253.2125                       |                |                      |
| Die Coat                    | Dow Corning                      | Silicone                       | 69430-27-9                    | 0.000000             | 0                             | 0                               |                |                      |
| Lead Frame                  | A42                              | Copper (Cu)                    | 7440-50-8                     | 0.000000             | 0                             | 0                               |                |                      |
|                             |                                  | Iron (Fe)                      | 7439-89-6                     | 0.000206             | 580000                        | 221500.265625                   |                |                      |
|                             |                                  | Phosphorus (P)                 | 7723-14-0                     | 0.000000             | 0                             | 0                               |                |                      |
|                             |                                  | Zinc (Zn)                      | 7440-66-6                     | 0.000000             | 0                             | 0                               |                |                      |
|                             |                                  | Nickel (Ni)                    | 7440-02-0                     | 0.001494             | 420000                        | 16036.75                        |                |                      |
|                             |                                  | 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>0.010700</b>                 | <b>1000000</b> | <b>381897.03125</b>  |
| Plating                     | PMI                              | Exter. Plating Pb              | 7439-92-1                     | 0.000000             | 0                             | 0                               |                |                      |
|                             |                                  | Exter. Plating Sn              | 7440-31-5                     | 0.000710             | 1000000                       | 25341.71875                     |                |                      |
|                             |                                  | <b>External Plating Total:</b> |                               |                      |                               | <b>0.000710</b>                 | <b>1000000</b> | <b>25341.71875</b>   |
|                             |                                  | Inter. Plating Ni              | 7440-02-0                     | 0.000000             | 0                             | 0                               |                |                      |
|                             |                                  | Inter. Plating Ag              | 7440-22-4                     | 0.000066             | 1000000                       | 3069.45239258                   |                |                      |
|                             |                                  | <b>Internal Plating Total:</b> |                               |                      |                               | <b>0.000066</b>                 | <b>1000000</b> | <b>3069.45239258</b> |
| Die Attach                  | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag)                    | 7440-22-4                     | 0.000811             | 750000                        | 28945.6503906                   |                |                      |
|                             |                                  | 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)                     |                               | 0.000230             | 250000                        | 9636.65234375                   |                |                      |
|                             |                                  | <b>Die Attach Total:</b>       |                               |                      |                               | <b>0.001041</b>                 | <b>1000000</b> | <b>28582.2007812</b> |
|                             |                                  | Encapsulation                  | MULTIAROMATIC RESIN BzSb FREE | Resin (EP)           |                               | 0.001659                        | 130000         | 59211.8789962        |
|                             |                                  |                                |                               | Bromine (Br)         | 40093-93-8                    | 0.000000                        | 0              | 0                    |
| Silica (SiO2)               | 60676-86-0                       |                                |                               | 0.010591             | 830000                        | 378006.65625                    |                |                      |
| Antimony Trioxide (Sb2O3)   | 1309-64-4                        |                                |                               | 0.000000             | 0                             | 0                               |                |                      |
| Metal Hydroxide             |                                  |                                |                               | 0.000447             | 35000                         | 13954.015625                    |                |                      |
| Carbon Black (C)            | 1333-86-4                        |                                |                               | 0.000064             | 5000                          | 2284.24365234                   |                |                      |
| <b>Encapsulation Total:</b> |                                  |                                |                               |                      |                               | <b>0.012761</b>                 | <b>1000000</b> | <b>45546.75</b>      |
| Bond Wire Estimated         | AFW/TANAKA/Kn                    | Gold (Au)                      | 7440-57-5                     | 0.000151             | 1000000                       | 5389.38709531                   |                |                      |

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