



Telink

Telink Semiconductor (Shanghai) CO., LTD  
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## Composition Table

To: TELINK SEMICONDUCTOR (SHANGHAI) CO., LTD.  
From: Forehope Electronic (Ningbo) Co.,Ltd.  
Product Name: TLSR8251F512ET24  
Weight(Unit): 43.3300 mg

Date: 2023/10/17

|               | Material name      | Vendor            | Weight(mg)              | Substance Name  | CAS No       | Weight(mg)              | Content (%)<br>Substance | Content (%)<br>Whole chip | Content (ppm) |
|---------------|--------------------|-------------------|-------------------------|---|--------------|-------------------------|--------------------------|---------------------------|---------------|
| Die1          | Telink Die         | SMIC BJ           | <a href="#">0.9647</a>  | Silicon   | 7440-21-3    | 0.9647                  | 100.00%                  | <a href="#">2.23%</a>     | 1000000       |
| Die2          | GD Die             | SMIC BJ           | <a href="#">0.2140</a>  | Silicon   | 7440-21-3    | 0.2140                  | 100.00%                  | <a href="#">0.49%</a>     | 1000000       |
| Lead Frame    | QFNWB-7X7-48L      | 兴胜利               | <a href="#">24.0100</a> |   |              |                         |                          | <a href="#">55.23%</a>    |               |
|               |                    |                   |                         | Cu  | 7440-50-8    | 23.2897                 | 97.00%                   | 53.75%                    | 970000        |
|               |                    |                   |                         | Fe  | 7349-89-6    | 0.5042                  | 2.10%                    | 1.16%                     | 21000         |
|               |                    |                   |                         | p   | 7723-14-0    | 0.0120                  | 0.05%                    | 0.03%                     | 500           |
|               |                    |                   |                         | Zn  | 7440-66-6    | 0.0240                  | 0.10%                    | 0.06%                     | 1000          |
|               |                    |                   |                         | Aq  | 7440-22-4    | 0.1801                  | 0.75%                    | 0.42%                     | 7500          |
| DAF           | ATB-F125E1-12      | Henkel            | <a href="#">0.0201</a>  | Silicon dioxide                                       | 7631-86-9    | 0.0111                  | 55.0%                    | <a href="#">0.01%</a>     |               |
|               |                    |                   |                         | Modified epoxy resin                                  | Trade Secret | 0.0050                  | 25.0%                    | 0.01%                     | 250000        |
|               |                    |                   |                         | Poly[oxy[(2-oxiranyl)-1,2-cyclohexanediyl]], a-hydro- |              |                         |                          |                           |               |
|               |                    |                   |                         | w-hydroxy-, ether with 2-ethyl-                       | 244772-00-7  | 0.0016                  | 8.0%                     | 0.00%                     | 80000         |
|               |                    |                   |                         | 2-(hydroxymethyl)-1,3-propanediol (3:1)               |              |                         |                          |                           |               |
| Epoxy         | 503CuM             | 理均                | <a href="#">0.2886</a>  | Phenol-formaldehyde polymer                           | 9003-35-4    | 0.0016                  | 8.0%                     | 0.00%                     | 80000         |
|               |                    |                   |                         | Bisphenol-A-(epichlorhydrin)                          | 25068-38-6   | 0.0008                  | 4.0%                     | 0.00%                     | 40000         |
|               |                    |                   |                         |   |              |                         |                          | <a href="#">0.17%</a>     |               |
|               |                    |                   |                         | Diethylene glycol monoethyl ether acetate             | 112-15-2     | 0.0133                  | 4.6000%                  | 0.03%                     | 46000         |
|               |                    |                   |                         | Silver flake  | 7440-22-4    | 0.2251                  | 78.0000%                 | 0.52%                     | 780000        |
|               |                    |                   |                         | Acylate resin   | Proprietary  | 0.0231                  | 8.0000%                  | 0.05%                     | 80000         |
| Wire          | SI 0.8mil          | MKE               | <a href="#">0.1534</a>  | Epoxy resin   | Proprietary  | 0.0260                  | 9.0000%                  | 0.06%                     | 90000         |
|               |                    |                   |                         | Peroxide  | Proprietary  | 0.0012                  | 0.4000%                  | 0.00%                     | 4000          |
|               |                    |                   |                         | Silver  | 7440-22-4    | 0.1473                  | 96.0000%                 | <a href="#">0.36%</a>     |               |
|               |                    |                   |                         | Palladium   | secret       | 0.0061                  | 4.0000%                  | 0.01%                     | 40000         |
| Mold Compound | CEL-9240HF10YX 75C | RESONAC Materials | <a href="#">16.5096</a> |   |              |                         |                          | <a href="#">43.61%</a>    |               |
|               |                    |                   |                         | Epoxy Resin A   | Trade Secret | 0.3302                  | 2.00%                    | 0.76%                     | 20000         |
|               |                    |                   |                         | Epoxy Resin B   | Trade Secret | 0.3302                  | 2.00%                    | 0.76%                     | 20000         |
|               |                    |                   |                         | Phenol Resin  | Trade Secret | 1.1557                  | 7.00%                    | 2.67%                     | 70000         |
|               |                    |                   |                         | Silica(Amorphous)A                                    | 60676-86-0   | 13.2077                 | 80.00%                   | 30.48%                    | 800000        |
|               |                    |                   |                         | Silica(Amorphous)B                                    | 7631-86-9    | 0.9906                  | 6.00%                    | 2.29%                     | 60000         |
|               |                    |                   |                         | Metal Hydroxide                                       | Trade Secret | 0.4127                  | 2.50%                    | 0.95%                     | 25000         |
|               |                    |                   |                         | Carbon Black  | 1333-86-4    | 0.0825                  | 0.50%                    | 0.19%                     | 5000          |
| Plating       | TIN                | YunNan Tin        | <a href="#">1.1696</a>  |   |              |                         |                          | <a href="#">2.17%</a>     |               |
|               |                    |                   |                         | Tin   | 7440-31-5    | 1.1695                  | 99.99%                   | 2.70%                     | 999900        |
|               |                    |                   |                         | other   | Trade secret | 0.0001                  | 0.01%                    | 0.00%                     | 100           |
| Total         |                    |                   | <a href="#">43.3300</a> |   |              | <a href="#">43.3300</a> | <a href="#">100%</a>     | <a href="#">1000000</a>   |               |

保存年限: 三年  
051-A1  
保存单位: QRA

文件编号: TFM-QRA-