



*Torex...Powerfully Small!*

**TOREX SEMICONDUCTOR LTD.**  
Quality Assurance Dept.

## Composition Table

Product(Pb-free): XC8101xxxxMR-G

Typical Mass: 16 mg

| Part name    | Weight(mg) | Material name   | Ratio(ppm) | CAS number |
|--------------|------------|-----------------|------------|------------|
| Silicon chip | 0.228      | Silicon         | 14300      | 7440-21-3  |
|              |            | - Arsenic       | <1         | 7440-38-2  |
| Leadframe    | 5.503      | Copper          | 343900     | 7440-50-8  |
|              | 0.022      | Tin             | 1400       | 7440-31-5  |
|              | 0.021      | Zinc            | 1300       | 7440-66-6  |
|              | 0.024      | Chromium        | 1500       | 7440-47-3  |
|              | 0.325      | Silver          | 20300      | 7440-22-4  |
| Die attach   | 0.049      | Silver          | 3000       | 7440-22-4  |
|              | 0.009      | Epoxy           | 600        | —          |
| Bonding wire | 0.030      | Gold            | 1900       | 7440-57-5  |
| Resin        | 7.671      | Silica          | 479400     | 60676-86-0 |
|              | 0.729      | Epoxy Resin     | 45600      | —          |
|              | 0.613      | Phenol Resin    | 38300      | —          |
|              | 0.436      | Metal Hydroxide | 27300      | —          |
| Plating      | 0.340      | Tin             | 21300      | 7440-31-5  |

\* The component composition is based on the information provided by raw material vender.

\* The mass of the IC and its fractions could be different due to the manufacturing conditions of materials.

\* Any indication "-" in CAS number means "confidential."