#### Supplier Name: Contact Info: Form/Declaration Type: Created on:

# Texas Instruments Inc. (DUNS# 00-732-1904) ti.com/support Distribute - RoHS and IEC 62474 DB

05/30/2022

Details for "ISO7761DBQR"

# **Current Product Information**

| TI part number | Lead finish/Ball material | MSL rating/peak reflow | Assembly site | Package   Pins | Package body size (mm) | Total device mass (mg)* |
|----------------|---------------------------|------------------------|---------------|----------------|------------------------|-------------------------|
| ISO7761DBQR    | NIPDAU                    | Level-2-260C-1 YEAR    | TI TAIWAN A/T | DBQ   16       | 3.9x4.9x1.5            | 121.2                   |

### \*Total Device Mass

The summary mass is a rounded value and will be within approximately +/- 10% of the detailed mass value.

## **Environmental Ratings Information**

| RoHS | REACH | Green | IEC 62474 DB |
|------|-------|-------|--------------|
| Yes  | Yes   | Yes   | Yes          |

# **Component Information**

|                                    |               |            |             | Homogeneous Material Level |         | Component Level |         |
|------------------------------------|---------------|------------|-------------|----------------------------|---------|-----------------|---------|
| Component                          | Substance     | CAS Number | Amount (mg) | Percentage %               | ppm     | Percentage %    | ppm     |
| Bond Wire                          |               |            |             |                            |         |                 |         |
| Copper and Its Alloys              | Iron          | 7439-89-6  | 0.000001    | 0.000281                   | 3       | 0.000001        | 0       |
| Other Nonferrous Metals and Alloys | Calcium       | 7440-70-2  | 0.000001    | 0.000281                   | 3       | 0.000001        | 0       |
| Other Nonferrous Metals and Alloys | Yttrium       | 7440-65-5  | 0.000002    | 0.000563                   | 6       | 0.00002         | 0       |
| Precious Metals                    | Gold          | 7440-57-5  | 0.355301    | 99.997748                  | 999977  | 0.293268        | 2933    |
| Precious Metals                    | Silver        | 7440-22-4  | 0.000004    | 0.001126                   | 11      | 0.000003        | 0       |
| Sub-Total                          |               |            | 0.355309    | 100                        | 1000000 | 0.293274        | 2933    |
| Die Attach Adhesive                |               |            |             |                            |         |                 |         |
| Precious Metals                    | Silver        | 7440-22-4  | 0.324008    | 74.999942                  | 749999  | 0.267438        | 2674    |
| Thermoplastics                     | Ероху         | 85954-11-6 | 0.108003    | 25.000058                  | 250001  | 0.089146        | 891     |
| Sub-Total                          |               |            | 0.432011    | 100                        | 1000000 | 0.356585        | 3566    |
| Die Attach Adhesive 2              |               |            |             |                            |         |                 |         |
| Precious Metals                    | Silver        | 7440-22-4  | 0.324008    | 74.999942                  | 749999  | 0.267438        | 2674    |
| Thermoplastics                     | Epoxy         | 85954-11-6 | 0.108003    | 25.000058                  | 250001  | 0.089146        | 891     |
| Sub-Total                          |               |            | 0.432011    | 100                        | 1000000 | 0.356585        | 3566    |
| Lead Frame                         |               | -          |             |                            |         |                 |         |
| Copper and Its Alloys              | Copper        | 7440-50-8  | 67.70208    | 97.05                      | 970500  | 55.881761       | 558818  |
| Copper and Its Alloys              | Iron          | 7439-89-6  | 1.81376     | 2.6                        | 26000   | 1.49709         | 14971   |
| Copper and Its Alloys              | Phosphorus    | 7723-14-0  | 0.10464     | 0.15                       | 1500    | 0.086371        | 864     |
| Zinc and Its Alloys                | Zinc          | 7440-66-6  | 0.13952     | 0.2                        | 2000    | 0.115161        | 1152    |
| Sub-Total                          |               |            | 69.76       | 100                        | 1000000 | 57.580382       | 575804  |
| Lead Frame Plating                 |               |            |             |                            |         |                 |         |
| Nickel and Its Alloys              | Nickel        | 7440-02-0  | 0.19024     | 95.12                      | 951200  | 0.157025        | 1570    |
| Precious Metals                    | Gold          | 7440-57-5  | 0.00156     | 0.78                       | 7800    | 0.001288        | 13      |
| Precious Metals                    | Palladium     | 7440-05-3  | 0.0082      | 4.1                        | 41000   | 0.006768        | 68      |
| Sub-Total                          |               |            | 0.2         | 100                        | 1000000 | 0.165081        | 1651    |
| Mold Compound                      |               |            |             |                            |         |                 |         |
| Other Inorganic Materials          | Fused Silica  | 60676-86-0 | 41.897222   | 89.499999                  | 895000  | 34.582254       | 345823  |
| Other Organic Materials            | Chlorine      | 7782-50-5  | 0.000936    | 0.001999                   | 20      | 0.000773        | 8       |
| Other Plastics and Rubber          | Carbon Black  | 1333-86-4  | 0.234063    | 0.500001                   | 5000    | 0.193197        | 1932    |
| Thermoplastics                     | Epoxy         | 85954-11-6 | 4.680318    | 9.998001                   | 99980   | 3.863167        | 38632   |
| Sub-Total                          |               |            | 46.812539   | 100                        | 1000000 | 38.639391       | 386394  |
| Semiconductor Device               |               |            |             |                            |         |                 |         |
| Ceramics / Glass                   | Doped Silicon | 7440-21-3  | 1.580252    | 100                        | 1000000 | 1.304351        | 13044   |
| Sub-Total                          |               |            | 1.580252    | 100                        | 1000000 | 1.304351        | 13044   |
| Semiconductor Device 2             |               |            |             |                            |         |                 |         |
| Ceramics / Glass                   | Doped Silicon | 7440-21-3  | 1.580252    | 100                        | 1000000 | 1.304351        | 13044   |
| Sub-Total                          |               |            | 1.580252    | 100                        | 1000000 | 1.304351        | 13044   |
|                                    |               |            |             |                            |         |                 |         |
| Total                              |               |            | 121.152374  | 1                          |         | 100             | 1000000 |

#### Important Note

The ppm calculations are at the homogeneous material level and are maximum concentration values. The ppm displayed represents the homogeneous material with the highest ppm for that substance. The amount (mg) calculations represent the maximum total amount of each substance within the component.

The ppm calculations are at the component level and are average concentration values. The amount (mg) calculations represent the average total amount of each substance within the component. See Glossary of Terms for more details.

# Important Part Information

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### Product Content Methodology

#### tion of the met ods used to determine material weights, See Product Content Methodology For an expl

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TI certifies that the material content information provided by TI is representative and accurate to the best of their knowledge based on material information provided by its suppliers and their combination into finished IC packaged products. TI semiconductor products designated to be "Pb-free", "Green" or "RoHS Exempt" fully meets the latest EU RoHS Directive requirements along with other legislation as seen in the former JIG-101 list that has been transferred to the IEC 62474 database.

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Signature: (click here for a fuller statement with a signed certificate)

Name/Title: Hubie Payne, Vice President, Worldwide SC Quality For further environmental statements, please go to www.ti.com/ecoinfo Created on: 05/30/2022

RoHS: Means TI semiconductor products that are compliant with the current RoHS requirement that the maximum concentration values of the ten substances listed in RoHS Annex II do not exceed 0.1 % by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI semiconductor products labeled as "ROHS Compliant" are suitable for use in specified lead-free processes. TI may also reference these types of semiconductor products as "Pb-Free." These TI semiconductor products are also fully compliant with GADSL and the IEC 62474 database for electronic requirements.

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