| IPC ASSOCIATION CONN ELECTRONICS INDUS | © Copyright 2005. II | Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under bointernational and Pan-American copyright conventions. | | der both | This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with low level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility. | | | | | | | | | |
|---|-------------------------------|--|---------------------------|-------------------|---|---|---------------------|--|-----|---------------------------------|---------------------------------|------------------|--------|-----------|
| 752-21.1 | | IPC Web Site for Information on IPC-1752 Standard Form Typ http://www.ipc.org/IPC-175x Distribute | | | | Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi | | | | ials and Mfg Information | | | | |
| upplier Info | formation | | | | | | | | , | | | | | |
| Company name* | | | Company unique ID | | | Ū | Unique ID Authority | | | | Response Date* | | | |
| nsemi | | | | | | | | | | 2022-02-11 | | | | |
| Contact Name | | Title - Contact | | | P | Phone - Contact* | | | | Email - Contact* | | | | |
| Product-Env-S | Stewards | Product Enviro Compliance | | | 1 | NA | | | | Product-Env-Stewards@onsemi.com | | | | |
| uthorized Rep | presentative* | Title - Representative | | | P | Phone - Representative* | | | | Email - Representative* | | | | |
| Product-Env-Stewards | | | Product Enviro Compliance | | | 1 | NA | | | | Product-Env-Stewards@onsemi.com | | | |
| Requ | Requester Item Number Mfr Ite | | m Number Mfr Item Name | | | | Effective Date | Version | N | Ianufacturing Site | W | eight* | UOM | Unit Type |
| | | NTBLS1D1N08H T8-80V in TOLL 1 | | T8-80V in TOLL fo | or industrial ma | rket | 2022-02-11 PBB | | ВВ | 8 | 11.7391 | mg | Each | |
| | ing Process Informat | | . 10 | All | OTD 020 MOL | D. C | D 1 D | D 1 T | | M. Ti. (D.) | T | N. 1 | CD G C | , |
| ž ž | | · - | | STD-020 MSL | Rating | | | Body Temperature Max Time at Peak 30 | | | | er of Reflow Cyc | cles | |
| • | te Tin (Sn) - annealed | C | U Alloy | 1 | | | 260 | | lC. | 30 | second | s 3 | | |
| omments | | | 1. 1. 1. 10 / | 20 | | | | | | | | | | |
| | um time at peak temperatu | | | | | | | | | | | | | |
| r more infort | mation regarding material | composition] | please refer t | o page 3 | | | | | | | | | | |

| RoHS Material Composition Declaration | | | Declaration Type * | Detailed | | | | | | | |
|---|--|--|---------------------------|------------|--|--|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS Directive 2011/65/EU | | | | | | | | | | | |
| Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2011/65/EU and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalentchromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance inexcess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that such information is true and correct to the best of its knowledges that Supplier completes this form. Supplier acknowledges that Company will rely on this certification in determining the compliance of its products with European Union member state laws that implement the RoHS Directive. Company acknowledges that Supplier may have relied on information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided by others, Supplier agrees that, at a minimum, its paragraph. If the Company and the Supplier enter into a written agreement with respect to the identified part, the terms and conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusivesource of the Supplier's Itability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply. | | | | | | | | | | | |
| RoHS Declaration * 4 - Item(s |) does not contain RoHS restricted substance | s per the definition above except for selected exemp | tions Supplier Acceptance | * Accepted | | | | | | | |
| Exemption: 7a: Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead). | | | | | | | | | | | |
| Exemption List Version | EL-2011/534/EU | | | | | | | | | | |
| Declaration Signature | | | | | | | | | | | |
| Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester. | | | | | | | | | | | |
| Supplier Digital Signature Ra | astislav Drska | -En | | | | | | | | | |

Homogeneous Material Composition Declaration for Electronic Products

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

| Homogeneous Material | Weight | Unit of Measure | Level | Substance | CAS | Exempt | Weight | Unit of Measure |
|----------------------|---------|-----------------|----------|----------------------------|------------|--------|----------|-----------------|
| Die | 6.35 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 6.35 | mg |
| Die Attach Solder | 7.6901 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.1923 | mg |
| | | | A | Lead (Pb) | 7439-92-1 | 7a | 7.344 | mg |
| | | | Supplier | Tin (Sn) | 7440-31-5 | | 0.1538 | mg |
| Lead Frame | 474.555 | mg | В | Nickel (Ni) | 7440-02-0 | | 0.2373 | mg |
| | | | Supplier | Iron (Fe) | 7439-89-6 | | 0.4746 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 473.7008 | mg |
| | | | Supplier | Phosphorus (P) | 7723-14-0 | | 0.1424 | mg |
| Mold Compound-Black | 314.85 | mg | Supplier | Carbon Black (C) | 1333-86-4 | | 1.5742 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 275.4937 | mg |
| | | | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 | | 18.891 | mg |
| | | | Supplier | Phenolic Resin (Novolac) | 9003-35-4 | | 18.891 | mg |
| Plating | 8.12 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 8.12 | mg |
| Wire Bond - Al | 0.174 | mg | Supplier | Aluminum (Al) | 7429-90-5 | | 0.174 | mg |