| ASSOCIATION CONNECTING<br>ELECTRONICS INDUSTRIES | <b>Omposition De</b><br>005. IPC, Bannockb<br>1d Pan-American co | c <b>laration</b><br>ourn, Illinois. A<br>opyright conve | All rights reserved un ntions.  | nder both      | This docume<br>level parts, th                                      | ent is a declaration entities the declaration entities and the declaration | on of the substan | ces within the man<br>wer level materia | nufacturer liste<br>ls for which th | d item. Note: i<br>e manufacture | f the item is an as<br>r has engineering | ssembly with low responsibility. |  |
|--|--|--|---------------------------------|----------------|---|--|-------------------|---|-------------------------------------|----------------------------------|--|----------------------------------|--|
|  | IPC Web Site for Information on IPC-1752 Standard Eorm 7         |  |                                 |                | e * Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Mater |  |                   |   | Materials and                       | ials and Mfg Information         |  |                                  |  |
| upplier Information                              |  |  |                                 |                |   |  |                   |   |                                     |                                  |  |                                  |  |
| ompany name*                                     | Company unique ID  |  |                                 | ι              | Unique ID Authority   |  |                   |   | Response Date*                      |                                  |  |                                  |  |
| nsemi  |  |  |                                 |                |   |  |                   |   | 2024-04-20                          |                                  |  |                                  |  |
| Contact Name T                                   |  |  | Title - Contact                 |                |   | Phone - Contact*   |                   |   |                                     | Email - Contact*                 |  |                                  |  |
| Product-Env-Stewards                             | Product Enviro Compliance  |  |                                 |                | NA  |  |                   |   | Product-Env-Stewards@onsemi.com     |                                  |  |                                  |  |
| uthorized Representative*                        | Title - Representative   |  |                                 | 1              | Phone - Representative*   |  |                   | Emai                                    | Email - Representative*             |                                  |  |                                  |  |
| roduct-Env-Stewards                              | Product Enviro Compliance  |  |                                 |                | NA  |  |                   |   | Product-Env-Stewards@onsemi.com     |                                  |  |                                  |  |
| Requester Item Number                            | Requester Item Number Mfr Item N                                 |  | Number Mfr Item Name            |                |   | Effective Date   | Version           | Manufacturing                           | Site                                | Weight*                          | UOM                                      | Unit Type                        |  |
|  | NTST20   | NTST20120CTG LVFR DUAL 2                                 |                                 | 0A120V TO220AB |   | 2024-04-20 CN  |                   | CN5                                     | CN5                                 |                                  | mg                                       | Each                             |  |
| Ianufacturing Proccess Info                      | rmation  |  |                                 |                |   |  |                   |   |                                     |                                  |  |                                  |  |
| Terminal Plating / Grid Arra                     | Terminal Plating / Grid Array Material Term                      |  | rminal Base Alloy J-STD-020 MSL |                | Rating  | Peak Process Body Temperature Max  |                   | ature Max Time                          | at Peak Tempe                       | erature Numb                     | per of Reflow Cyd                        | cles                             |  |
| Matte Tin (Sn) - annealed                        |  | CU Alloy NA  |                                 | NA             |   | 0  | C                 | 30                                      | see                                 | conds 3                          |  |                                  |  |
| omments  |  |  |                                 |                |   |  |                   |   |                                     |                                  |  |                                  |  |
|  |  |  |                                 |                |   |  |                   |   |                                     |                                  |  |                                  |  |
| or more information regarding mat                | erial composition  | please refer to  | page 3                          |                |   |  |                   |   |                                     |                                  |  |                                  |  |

| RoHS Material Composition Declaration  |  |  |              | Declaration Type *                              | Detailed                                     |  |  |  |  |  |
|--|--|--|--------------|---|--|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS<br>Directive 2011/65/EU  | RoHS Definition: Quantity limit of 0.01% by mass (100 PPM) in homogeneous material for Cadmium and quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury (Hg), Hexavalent Chromium (Cr6+), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), and Bis(2-ethylhexyl) phthalate (DEHP), Benzyl-butyl phthalate (BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP).  |  |              |   |  |  |  |  |  |  |
| cadmium, hexavalentchromium, polybromina<br>contains a RoHS restricted substance inexces<br>encompass all such components. Supplier cer<br>as of the date that Supplier completes this for<br>Company acknowledges that Supplier may h<br>independently verified information provided<br>certification in this paragraph. If the Company<br>that agreement, will be the sole and exclusive | 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, admium, 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 ontains 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 ncompass 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 knowledge and belief, s of the date 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 informationprovided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not ndependently verified information provided by others, Supplier agrees that, at a minimum, itsuppliers have provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the ertification in the sole and exclusivesource of the Supplier removes of the supplier of the Company and the Supplier 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 has agreement, will be the sole and exclusivesource of the Supplier's liability and the Company's remedies for issues that arise re |  |              |   |  |  |  |  |  |  |
| RoHS Declaration * 4 - Item(   | s) does not contain RoHS restricted subst  | ances per the definition above except for sele | ected exempt | ions Supplier Acceptance                        | * Accepted                                   |  |  |  |  |  |
| Exemption: 7a: Lead in high melting temp   | erature type solders (i.e. lead based sol  | der alloys containing 85% by weight or m       | ore lead).   |   |  |  |  |  |  |  |
| Exemption List Version   | EL-2011/534/EU   |  |              |   |  |  |  |  |  |  |
| Declaration Signature  |  |  |              |   |  |  |  |  |  |  |
| Instructions: Complete all of the required<br>Requester) and click on Submit Form to h   |  |  | e drop-dowi  | a. This will display the signature area. Digita | lly sign the declaration (if required by the |  |  |  |  |  |
| Supplier Digital Signature   | astislav Drska   | Le   |              |   |  |  |  |  |  |  |

## 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.

| Homogeneous Material | Weight  | Unit of Measure | Level    | Substance                  | CAS              | Exempt | Weight  | Unit of Measure |
|----------------------|---------|-----------------|----------|----------------------------|------------------|--------|---------|-----------------|
| Die                  | 3.55    | mg              | Supplier | Silicon (Si)               | 7440-21-3        |        | 3.55    | mg              |
| Die Attach           | 82.98   | mg              | А        | Lead (Pb)                  | 7439-92-1        | 7a     | 74.682  | mg              |
|                      |         |                 | Supplier | Tin (Sn)                   | 7440-31-5        |        | 8.298   | mg              |
| Lead Frame           | 1300.04 | mg              | Supplier | Copper (Cu)                | 7440-50-8        |        | 1300.04 | mg              |
| Mold Compound-Black  | 543.9   | mg              |          | Metal Hydroxide            | proprietary data |        | 38.073  | mg              |
|                      |         |                 | Supplier | Carbon Black (C)           | 1333-86-4        |        | 2.7195  | mg              |
|                      |         |                 | Supplier | Fused Silica (SiO2)        | 60676-86-0       |        | 407.925 | mg              |
|                      |         |                 | Supplier | Ortho-Cresol Novolac Resin | 29690-82-2       |        | 81.585  | mg              |
|                      |         |                 | Supplier | Phenolic Resin (Novolac)   | 9003-35-4        |        | 13.5975 | mg              |
| Plating              | 31.13   | mg              | Supplier | Tin (Sn)                   | 7440-31-5        |        | 31.13   | mg              |
| Wire Bond - Al       | 0.41    | mg              | Supplier | Aluminum (Al)              | 7429-90-5        |        | 0.41    | mg              |

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 (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted)