| IPC ASSOCIATION ELECTRONIC | © Copyright 200 | Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under be international and Pan-American copyright conventions. | | nder 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 Type http://www.ipc.org/IPC-175x Distribute | | | | Form Type ³ Distribute | * | Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materi | | | | Materials and | ials and Mfg Information | | | |
| Supplie | r Information | | | | | | | | | | | | | | |
| Company name* Company unio | | | | ique ID Uniq | | | Unique ID Authority | | | | Resp | Response Date* | | | |
| nsemi | | | | | | | | | | | 2023- | 2023-06-08 | | | |
| Contact N | Name | Title - Contact | | | I | Phone - Contact* | | | | Emai | Email - Contact* | | | | |
| Product-l | Env-Stewards | | Product Enviro Compliance | | |] | NA | | | | Prod | Product-Env-Stewards@onsemi.com | | | |
| uthorize | ed Representative* | | Title - Representative | | | I | Phone - Representative* | | | | Emai | Email - Representative* | | | |
| Product-l | Env-Stewards | | Product Enviro Compliance | | | 1 | NA | | | | Prod | Product-Env-Stewards@onsemi.com | | | |
| | Requester Item Number Mfr Item | | n Number Mfr Item Name | | | | Effective Date Version Manufacturing S | | ite | Weight* | UOM | Unit Type | | | |
| | | NCS220 | CS2202SN1T1G ANA COMPARATO | | TORS | | 2023-06-08 | MY1 | | | 14.08 | mg | Each | | |
| Ianufa | acturing Process Infor | mation | | | | | | | | | | | | · | |
| | <u> </u> | | Terminal Base Alloy J-STI | | -STD-020 MSL | Rating | 1 1 | | Temperatur | ature Max Time at Peak Temp | | rature Numb | per of Reflow Cy | cles | |
| Matte Tin (Sn) - annealed CU | | | CU Alloy 1 | | | | 260 C 30 | | | sec | seconds 3 | | | | |
| omments | | | | | | | | | | | | | | | |
| <u>vel 1 - m</u> | naximum time at peak tempe | rature during so | ldering is 10-3 | 30 seconds | | | | | | | | | | | |
| or more | information regarding mate | rial composition | please refer to | o page 3 | | | | | | | | | | | |

| RoHS Material Composition Declaration | | | Declaration Type * | Detail | led | | | | | | |
|--|--|--|--|--|---|--|--|--|--|--|--|
| Directive 2015/863/EU amending RoHS 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). | | | | | | | | | | | |
| cadmium, hexavalentchromium, polybromir contains a RoHS restricted substance inexce encompass all such components. Supplier ce as of the date that Supplier completes this fo Company acknowledges that Supplier may l independently verified information provided certification in this paragraph. If the Compan | nated biphenyls and/or polybrominated dipless of an applicable quantity limit, please intifies that it gathered the information it prome. Supplier acknowledges that Company have relied on information provided by other by others, Supplier agrees that, at a mining and the Supplier enter into a written agree esource of the Supplier's liability and the | henyl ethers (each a "RoHS restricted substational substance below which, if any, RoHS exemption by desired in this form using appropriate method will rely on this certification in determining ters in completing this form, and that Supplies have provided certification between the will respect to the identified part, the Company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects to the identified part, the company's remedies for issues that arise respects the company is the co | ws of the European Union member states) of the pnce") in excess of the applicable quantity limit iden you believe may apply. If the part is an assemble is to ensure its accuracy and that such information the compliance of its products with European Union may not have independently verified such informs regarding their contributions to the part, and tho terms and conditions of that agreement, including the provides in this formation information the Supplier provides in this formation. | entified above. If a y with lower level is true and correct on member state la nation. However, in se certifications are any warranty rigl | n homogeneous material within the part components, the declaration shall t to the best of its knowledge and belief, aws that implement the RoHS Directive. In situations where Supplier has not the at least as comprehensive as the this and/or remedies provided as part of | | | | | | |
| RoHS Declaration * 1 - Item | (s) does not contain RoHS restricted substa | ances per the definition above | Supplier Ac | ceptance * | Accepted | | | | | | |
| Exemption: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions. | | | | | | | | | | | |
| Exemption List Version | EL-2011/534/EU | | | | | | | | | | |
| Declaration Signature | | | | | | | | | | | |
| Instructional Complete all of the required | fields on all neggs of this form. Calcut th | | a duan dawn. This will display the signature on | a Digitally sign | the declaration (if recruired by the | | | | | | |
| Instructions: Complete all of the required Requester) and click on Submit Form to | | | e drop-down. This will display the signature ar | ea. Digitally sign | the declaration (if required by the | | | | | | |

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 | 0.42 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 0.42 | mg |
| Die Attach | 0.11 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.088 | mg |
| | | | Supplier | Phenolic Resin-2 | 54208-63-8 | | 0.022 | mg |
| Lead Frame | 5.78 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.0705 | mg |
| | | | Supplier | Zinc (Zn) | 7440-66-6 | | 0.0069 | mg |
| | | | Supplier | Iron (Fe) | 7439-89-6 | | 0.1358 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 5.565 | mg |
| | | | Supplier | Phosphorus (P) | 7723-14-0 | | 0.0017 | mg |
| Mold Compound-Black | 7.34 | mg | | Epoxy resin | proprietary data | | 0.367 | mg |
| | | | Supplier | Phenolic Resin | Proprietary Data | | 0.367 | mg |
| | | | Supplier | Ortho Cresol Novolac Resin | 29690-82-2 | | 0.1468 | mg |
| | | | Supplier | Carbon Black (C) | 1333-86-4 | | 0.0367 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 6.4225 | mg |
| Plating | 0.39 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 0.39 | mg |
| Wire Bond - Au | 0.04 | mg | Supplier | Gold (Au) | 7440-57-5 | | 0.04 | mg |