| IPC ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES | Material Composition Declaration © Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions. | | | | This document is a declaration of the substances within the manufacturer listed item. Note: if the item is an assembly with lowe 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 | | | | * | Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information | | | | | | | | | |
| upplier Inform | ation | | | | | | | | | | | | | | |
| Company name* Company unique ID | | | | Unique ID Authority | | | | | Response Date* | | | | | | |
| nsemi | | | | | | | | | | | | 2023-06-08 | | | |
| ontact Name | | Title - Contact | | | I | Phone - Contact* | | | | | Email - Contact* | | | | |
| Product-Env-Stewa | rds | | Product Enviro Compliance | | |] | NA | | | | | Product-Env-Stewards@onsemi.com | | | |
| Authorized Representative* | | | Title - Representative | | | I | Phone - Representative* | | | | | Email - Representative* | | | |
| Product-Env-Stewards Product Envir | | | | iro Compliance | nce NA | | | | | | Product-Env-Stewards@onsemi.com | | | | |
| Requeste | Requester Item Number Mfr Iten | | Number Mfr Item Name | | | Effective Date | Versio | on | Manufacturing Site | | , | Weight* | UOM | Unit Type | |
| | | STK672-440AN-E Stepping motor driv | | iver | | 2023-06-08 | | VN2 | | 3 | 3850.0 | mg | Each | | |
| | Process Information | | | | (CTT) 020 M/G | | | | T |] A 6 m | | T | - Iv. 1 | CD C | |
| 8 | | - | | | -STD-020 MS | L Rating | | ess Body | | | me at Peak | | | er of Reflow Cyc | cles |
| <u> </u> | n (Sn) - annealed | C | CU Alloy | <u> </u> | NA | | 0 | | C | 30 | | secon | ds 3 | | |
| omments | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| r more informatio | on regarding material co | omposition j | please refer t | o page 3 | | | | | | | | | | | |

| RoHS Material Composition Declaration | | | Declaration 7 | Гуре * | 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 knowledge and belief, as 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 information provided by others in completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier shave provided certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certification in this 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 of Supplier's Standard Terms andConditions of Sale applicable to such part shall apply. | | | | | | | | | | | | |
| RoHS Declaration * 4 - Item(s | does not contain RoHS restricted substances | per the definition above except for sele | ted exemptions | Supplier Acceptance | * Accepted | | | | | | | |
| Exemption: 7c-I Electrical and electronic co | omponents containing lead in a glass or cera | mic other than dielectric ceramic in | apacitors, e.g. piezoelect | ronic devices, or in a glass or co | eramic matrix compound. | | | | | | | |
| 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 | E_ | | | | | | | | | | |

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 |
|----------------------|---------|-----------------|----------|-------------------------------------|----------------------------|--------|-----------|-----------------|
| Ceramic Substrate | 1190.04 | mg | Supplier | Bisphenol A_Epichlorohydrin Polymer | 25068-38-6 | | 7.0212 | mg |
| | | | Supplier | Aluminum Trioxide (Al2O3) | 1344-28-1 | | 46.1736 | mg |
| | | | В | Nickel (Ni) | 7440-02-0 | | 2.0231 | mg |
| | | | Supplier | Acrylic resins | Proprietary Data | | 0.833 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 81.3987 | mg |
| | | | Supplier | Barium Sulfate (BaSO4) | 7727-43-7 | | 0.595 | mg |
| | | | Supplier | Aluminum (Al) | 7429-90-5 | | 1051.9954 | mg |
| Chip Parts | 23.04 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.364 | mg |
| | | | Supplier | Epoxy resins | 129915-35-1 | | 0.1843 | mg |
| | | | Supplier | Tin (Sn) | 7440-31-5 | | 0.7304 | mg |
| | | | Supplier | Magnesium Monoxide (MgO) | 1309-48-4 | | 0.0415 | mg |
| | | | Supplier | Silica Amorphous (SiO2) | 7631-86-9 | | 0.1889 | mg |
| | | | Supplier | Ceramic | 12013-47-7, 12047- 27-7 | | 6.9028 | mg |
| | | | Supplier | Aluminum Trioxide (Al2O3) | 1344-28-1 | | 10.5362 | mg |
| | | | В | Nickel (Ni) | 7440-02-0 | | 1.6635 | mg |
| | | | A | Lead Oxide (PbO) | 1317-36-8 | 7c | 0.023 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 2.2072 | mg |
| | | | Supplier | Silica Crystalline (SiO2) | 14808-60-7 | | 0.1981 | mg |
| Die | 9.53 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 9.5148 | mg |
| | | | Supplier | Polyimide | Proprietary Data | | 0.0152 | mg |
| Lead Frame | 464.91 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 0.2789 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 464.631 | mg |
| Mold Compound-Black | 2154.08 | mg | | Brominated epoxy resin | proprietary data | | 43.0816 | mg |
| | | | Supplier | Phenolic Resin | Proprietary Data | | 150.7856 | mg |
| | | | В | Antimony Trioxide (Sb2O3) | 1309-64-4 | | 43.0816 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 1507.8561 | mg |
| | | | Supplier | Ortho-Cresol Novolac Resin | 29690-82-2 | | 409.2752 | mg |
| Plating | 0.94 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 0.582 | mg |
| | | | В | Nickel (Ni) | 7440-02-0 | | 0.358 | mg |
| Solder Ball | 6.03 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.1682 | mg |
| | | | Supplier | Tin (Sn) | 7440-31-5 | | 5.8274 | mg |

| | | | В | Antimony (Sb) | 7440-36-0 | 0.0048 | mg |
|-----------|------|----|----------|---------------|-----------|--------|----|
| | | | Supplier | Copper (Cu) | 7440-50-8 | 0.0295 | mg |
| Wire Bond | 1.43 | mg | Supplier | Silicon (Si) | 7440-21-3 | 0.0057 | mg |
| | | | Supplier | Aluminum (Al) | 7429-90-5 | 1.4243 | mg |