| [© | 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. | | | | | | | | | | |
|-------------------------------|---|---------------------------|----------------------------------|-------------------------|--|--|-------------------------|-------------|--------------------|------------------|---------------------------------|---------|--------|-----------|------|
| | IPC Web Site for Information on IPC-1752 Standard Form Type http://www.ipc.org/IPC-175x Form Type Distribute | | | | * | Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Information | | | | | | | | | |
| upplier Informatio | on | | | | | | | | | | | | | | |
| Company name* Compar | | | | ny unique ID | | | Unique ID Authority | | | | Response Date* | | | | |
| nsemi | | | | | | | | | | | 2023-06-12 | | | | |
| ontact Name | | Title - Contact | | | I | Phone - Contact* | | | | Email - Contact* | | | | | |
| Product-Env-Stewards | | Product Enviro Compliance | | | | NA | | | | | Product-Env-Stewards@onsemi.com | | | | |
| Authorized Representative* | | | Title - Representative | | | I | Phone - Representative* | | | | Email - Representative* | | | | |
| Product-Env-Stewards Pro | | | | oduct Enviro Compliance | | | NA | | | | Product-Env-Stewards@onsemi.com | | | | |
| Requester Iter | Requester Item Number Mfr Item | | Number Mfr Item Name | | | Effective Date | Versi | on | Manufacturing Site | | | Weight* | UOM | Unit Type | |
| | | STK672-4 | 432AN-E | Stepping motor dr | iver | | 2023-06-12 | | | VN2 | | 3 | 3380.0 | mg | Each |
| Ianufacturing Pro | | | . 15 | | OED 020 140 | I D d | D 1 D | D 1 | T | 14 5 | | T | | CD C | , |
| 3 | | | Terminal Base Alloy J-STD-020 MS | | L Rating | Peak Process Body Temperature Max Time at F | | ime at Peak | Τ' | | er of Reflow Cyc | cles | | | |
| ` | ı) - annealed | C | U Alloy | <u> </u> | JA | | 0 | | JC. | 30 | | secon | ds 3 | | |
| omments | | | | | | | | | | | | | | | |
| | | •.• | • | | | | | | | | | | | | |
| <u>or more information re</u> | egarding material cor | nposition p | please refer t | page 3 | | | | | | | | | | | |

| RoHS Material Composition Declaration | | | Declaration 7 | Гуре * | Detailed | | | | | | |
|--|--|--|----------------------------|------------------------------------|--|--|--|--|--|--|--|
| 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). | | | | | | | | | | | |
| 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 has not independently verified information provided by others, Supplier agrees that, at a minimum, its suppliers have 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 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 Islability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. In the abse | | | | | | | | | | | |
| 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 f Requester) and click on Submit Form to ha | | ccepted" on the Supplier Acceptance | drop-down. This will dis | play the signature area. Digital | lly sign the declaration (if required by the | | | | | | |
| 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 | 1157.4 | mg | Supplier | Bisphenol A_Epichlorohydrin Polymer | 25068-38-6 | | 6.8287 | mg |
| | | | Supplier | Aluminum Trioxide (Al2O3) | 1344-28-1 | | 44.9071 | mg |
| | | | В | Nickel (Ni) | 7440-02-0 | | 1.9676 | mg |
| | | | Supplier | Acrylic resins | Proprietary Data | | 0.8102 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 79.1662 | mg |
| | | | Supplier | Barium Sulfate (BaSO4) | 7727-43-7 | | 0.5787 | mg |
| | | | Supplier | Aluminum (Al) | 7429-90-5 | | 1023.1416 | mg |
| Chip Parts | 21.59 | mg | Supplier | Silver (Ag) | 7440-22-4 | | 0.0756 | mg |
| | | | Supplier | Bisphenol A, Epichlorohydrin polymer | 25036-25-3, 25068- 38-6 | | 0.0281 | mg |
| | | | Supplier | Tin (Sn) | 7440-31-5 | | 0.6844 | mg |
| | | | Supplier | Magnesium Monoxide (MgO) | 1309-48-4 | | 0.0907 | mg |
| | | | Supplier | Silica Amorphous (SiO2) | 7631-86-9 | | 0.1123 | mg |
| | | | Supplier | Ceramic | 12013-47-7, 12047- 27-7 | | 6.9908 | mg |
| | | | Supplier | Aluminum Trioxide (Al2O3) | 1344-28-1 | | 10.048 | mg |
| | | | В | Nickel (Ni) | 7440-02-0 | | 1.0773 | mg |
| | | | A | Lead Oxide (PbO) | 1317-36-8 | 7c | 0.0022 | mg |
| | | | Supplier | Chromium Trioxide (Cr2O3) | 1308-38-9 | | 0.0043 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 2.2821 | mg |
| | | | Supplier | Silica Crystalline (SiO2) | 14808-60-7 | | 0.1943 | mg |
| Die | 4.82 | mg | Supplier | Silicon (Si) | 7440-21-3 | | 4.8104 | mg |
| | | | Supplier | Polyimide | Proprietary Data | | 0.0096 | mg |
| Lead Frame | 452.16 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 0.2713 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | | 451.8887 | mg |
| Mold Compound-Black | 1733.81 | mg | | Brominated epoxy resin | proprietary data | | 34.6762 | mg |
| | | | Supplier | Phenolic Resin | Proprietary Data | | 121.3667 | mg |
| | | | В | Antimony Trioxide (Sb2O3) | 1309-64-4 | | 34.6762 | mg |
| | | | Supplier | Fused Silica (SiO2) | 60676-86-0 | | 1213.667 | mg |
| | | | Supplier | Ortho-Cresol Novolac Resin | 29690-82-2 | | 329.4239 | mg |
| Plating | 0.91 | mg | Supplier | Tin (Sn) | 7440-31-5 | | 0.5634 | mg |
| | | | В | Nickel (Ni) | 7440-02-0 | | 0.3466 | mg |

| Solder Ball | 8.02 | mg | Supplier | Silver (Ag) | 7440-22-4 | 0.2238 | mg |
|-------------|------|----|----------|---------------|-----------|--------|----|
| | | | Supplier | Tin (Sn) | 7440-31-5 | 7.7505 | mg |
| | | | В | Antimony (Sb) | 7440-36-0 | 0.0064 | mg |
| | | | Supplier | Copper (Cu) | 7440-50-8 | 0.0393 | mg |
| Wire Bond | 1.29 | mg | Supplier | Silicon (Si) | 7440-21-3 | 0.0045 | mg |
| | | | Supplier | Aluminum (Al) | 7429-90-5 | 1.2855 | mg |