| ASSOCIATION CONNECTING<br>ELECTRONICS INDUSTRIES®              | © Co   | terial Compo<br>pyright 2005. IPC, Bannoc<br>nternational and Pan-Ameri | kburn, Illinois | . All rights reserve                     | CION with lowe  | r level                   | parts, the             | declaratio | n encon  |  | er level mate | erials for | which t     | e item is an assembly<br>he manufacturer has<br><b>declaration.</b> |  |
|--|--|---|-----------------|--|-----------------|---------------------------|------------------------|------------|--|--|---------------|------------|-------------|---|--|
| 1752-2 1.1   | IPC Web Site for Information on IPC-1752 Standard<br>http://www.ipc.org/IPC-175x |   |                 |  |                 | Form Type *<br>Distribute |                        |            | Declaration Class *<br>Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inform |  |               |            |             |   |  |
| Supplier Information   |  |   |                 |  |                 |                           |                        |            |  |  |               |            |             |   |  |
| Company Name *<br>RAMI TECHNOLOGY US                           |  | Company Unique ID   |                 | Unique ID Au                             | thority         |                           | onse Date<br>∙02-23    | ) *        | 1  | Response Doc                                   | ument ID      |            |             |   |  |
| Contact Name * Title - Contact YG Jiao                         |  |   |                 | Phone - Contact *<br>0755-21537133       |                 |                           | I - Contac<br>o@ramite |            | y.com  | Duplicate Contact -> Authorized Representative |               |            |             |   |  |
| Authorized Representative * Title - Representative Frank Parra |  |   | 9               | Phone - Representative *<br>305-593-6033 |                 |                           | l - Repres<br>@ramited |            |  | Supplier Comn                                  | nents or URL  | for Add    | ditional li | nformation  |  |
| Requester Item Number  | ər   | Mfr Item Number   |                 | Mfr Item Name                            |                 | Effect                    | ve Date                | Version    | Manufa   | cturing Site                                   | Weight *      | UC         | M           | Unit Type   |  |
|  |  | AS product family   |                 | AS product fa                            | mily            | 2021-                     | 02-18                  |            | China  |  | 505.7347      | mg         | 3           | Each  |  |
| Alternate Recommend  | lation   |   |                 |  |                 | Alternat                  |                        | Alternate  | Item Comments  |  |               |            |             |   |  |
| Manufacturing Proce  | ss In  | formation   |                 |  |                 |                           |                        |            |  |  |               |            |             |   |  |
| Terminal Plating / Grid Array                                  | Materi   | ial   | Terminal B      | ase Alloy                                | J-STD-020 MSL F | ating                     | Peak Proc              | ess Body   | Tempera  | ature Max Time                                 | at Peak Tem   | perature   | Number      | of Reflow Cycles  |  |
| Matte Tin (Sn) K   |  |   | Kovar           | 1  |                 |                           | 260 C 10 seconds 2     |            |  |  |               |            |             |   |  |
| Boron trioxide (B2O3) (  | CAS #  | 1303-86-2) is used a  | is a comp       | onent of glas                            | s. The use of B | 2O3 is                    | as a cher              | nical inte | ermedia  | ate to make gl                                 | ass and is t  | herefor    | e NOT a     | In SVHC.  |  |

| Save the fields in<br>this form to a fileExport DataImport fields from a<br>file into this formClear all of the<br>fields on this formReset Form   | Lock the fields on this form to prevent changes   | Lock Supplier Fields   |
|--|---|--|
| RoHS Material Composition Declaration  | Declaration Type *  | Detailed   |
| RoHS Directive<br>2002/95/ECRoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexav<br>Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for C   |   | ated Biphenyls (PBB),  |
| Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part ic<br>chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogenexcess 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 declaratio<br>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 o<br>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<br>completing this form, and that Supplier may not have independently verified such information. However, in situations where Supplier has not independently verified information provided b<br>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 in<br>conditions of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the sole and exclusive source of the Supplier's liability and the Com-<br>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 app | neous material within the part contains a<br>con shall encompass all such components<br>of the date that Supplier completes this for<br>that Supplier may have relied on inform<br>by others, Supplier agrees that, at a mini<br>tho a written agreement with respect to the<br>mpany's remedies for issues that arise re | RoHS restricted substance in<br>s. Supplier certifies that it<br>orm. Supplier acknowledges that<br>lation provided by others in<br>imum, its suppliers have provided<br>he identified part, the terms and |
| RoHS Declaration * 1 - Item(s) does not contain RoHS restricted substances per the definition above  | Supplier Acceptance * Accept  | oted   |
| Exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then s above and choose all applicable exemptions.   | select the corresponding respon   | se in the RoHS Declaration   |
| Declaration Signature  |   |  |
| Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-do  | own. This will display the sig  | nature 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 YG Jiao

数字签名非: YG Jiao DN: cn=YG Jiao, o=RAMI TECHNOLOGY USA LLC, ou=QA, =mailsyglao@ramitechnology.com, c=CN 日期: 2014.04.08 15:44:13 +08'00'

## Homogeneous Material Composition Declaration for Electronic Products

Subltem 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).

Line Functions: +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

|      | Item/SubItem |       | Homogeneous | Weight  | Unit of<br>Measure |       | Level    | Substance Category      |    |    | Substance | CAS        | Exempt |         |         | Tolerance |   | РРМ |
|------|--------------|-------|-------------|---------|--------------------|-------|----------|-------------------------|----|----|-----------|------------|--------|---------|---------|-----------|---|-----|
|      | Name         |       | Material    |         |                    |       |          |                         |    | _  |           |            | •      |         | Measure | -         | + | Ĺ   |
| +  - | AS series    | +M -M | BASE        | 348.591 | mg                 | +C -C | Supplier | Metal body              | +S | -S | Fe        | 7439-89-6  |        | 305.663 | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Mn        | 7439-96-5  |        | 0.6     | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Si        | 7440-21-3  |        | 0.044   | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Р         | 7723-14-6  |        | 0.325   | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | SiO       | 14808-60-7 |        | 9.75    | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | С         | 1333-86-4  |        | 0.151   | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | B2O       | 1303-86-2  |        | 2.4     | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | AI2O3     | 1344-28-1  |        | 1.59    | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Li2O      | 12057-24-8 |        | 0.12    | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Na2O      | 1313-59-3  |        | 0.9     | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | К2О       | 12136-45-7 |        | 0.24    | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Cu        | 7440-50-8  |        | 5.941   | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Zn        | 7440-66-6  |        | 3.16    | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Co        | 7440-48-4  |        | 2.039   | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Sn        | 7440-31-5  |        | 0.12    | mg      |           |   |     |
|      |              |       |             |         |                    | +C -C | в        | Nickel (external applic | +S | -S | Nickel    | 7440-02-0  |        | 15.548  | mg      |           |   |     |
|      |              | +M -M | Cover       | 146.40  | mg                 | +C -C | Supplier | Metal Alloy             | +S | -S | Cu        | 7440-50-8  |        | 91.814  | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Mn        | 7439-96-5  |        | 0.302   | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | с         | 7440-44-0  |        | 0.00035 | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Si        | 7440-21-3  |        | 0.00014 | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Ρ         | 7723-14-6  |        | 0.00007 | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | s         | 7704-34-9  |        | 0.00007 | mg      |           |   |     |
|      |              |       |             |         |                    |       |          |                         | +S | -S | Mg        | 7439-95-4  |        | 0.00007 | mg      |           |   |     |

| +S -S Fe                         | 7439-89-6     | 0.113 mg               |        |    |         |   |  |            |        |    |  |  |
|----------------------------------|---------------|------------------------|--------|----|---------|---|--|------------|--------|----|--|--|
| +S -S Zn                         | 7440-66-6     | 24.164 mg              |        |    |         |   |  |            |        |    |  |  |
| +                                | С-Св          | Nickel (external appli | lic +S | -S | Nickel  |   |  | 7440-02-0  | 30.007 | mg |  |  |
| +M -M Crystal Resonat 6.133 mg + | C -C Supplier | Quartz blank           | +S     | -S | SiO     |   |  | 14808-60-7 | 4.621  | mg |  |  |
| +                                | C -C Supplier | Silver                 | +S     | -S | Ag      |   |  | 7440-22-4  | 1.512  | mg |  |  |
| +M -M Conductive Cem 4.61 mg +   | C -C Supplier | Silver                 | +S     | -S | 6 Ag    |   |  | 7440-22-4  | 1.521  | mg |  |  |
| +                                | C -C Supplier | Silicone               | +S     | -S | Silicon | е |  | 218163-11  | 3.089  | mg |  |  |