| ASSOCIATION CONNECTING<br>ELECTRONICS INDUSTRIES® | © Co   | terial Compo<br>pyright 2005. IPC, Bannoc<br>International and Pan-Ameri | kburn, Illinois | . All rights reserv      | tion with lowe                          | er level       | parts, the               | declaratio | on enco  |   | er level mate                | erials for | which t | e item is an assembly<br>he manufacturer has<br>declaration. |  |
|---|--------|--|-----------------|--------------------------|---|----------------|--------------------------|------------|--|---|------------------------------|------------|---------|--|--|
| 1752-2 1.1  |        | Web Site for Informat<br>://www.ipc.org/IPC-1                            | -1752 Standa    | ard                      | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                |                          |            | laration Class *<br>ss 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat |   |                              |            |         |  |  |
| Supplier Information                              |        |  |                 |                          |   |                |                          |            |  |   |                              |            |         |  |  |
| Company Name *<br>ST MICROELECTRONIC              |        | Company Unique ID  |                 | Unique ID Authority      |   | Resp<br>N/A    | Response Date *<br>N/A   |            |  | Response Document ID                                |                              |            |         |  |  |
| Contact Name *                                    |        | Title - Contact  |                 | Phone - Contact *        |   | Emai           | Email - Contact *        |            |  |   |                              |            |         |  |  |
| Authorized Representativ                          |        | * Title - Representative   |                 | Phone - Representative * |   | Emai           | Email - Representative * |            |  | Supplier Comments or URL for Additional Information |                              |            |         |  |  |
| GIUSEPPE VITALI PALM                              |        | APM MD CHAMPION  |                 | N/A                      |   | N/A            | N/A                      |            |  |   |                              |            |         |  |  |
| Requester Item Number                             |        | Mfr Item Number  |                 | Mfr Item Name            |   | Effective Date |                          | Version    | Manufacturing Site   |   | Weight *                     | UC         | M       | Unit Type  |  |
|   |        |  |                 | EDO7*2702SA4             |   | 2011-          | 07-05                    | A          | BO2A   | 76.7  |                              | mg         | ng      | Each   |  |
| Alternate Recommendation PACKAGE: EDO7*2702SA4    |        |  |                 |                          |   |                |                          | Alternate  | e Item Co  | omments ECO   | DPACK1/ROHS; BSA: CD17740570 |            |         |  |  |
| Manufacturing Proces                              | ss In  | formation  |                 |                          |   |                |                          |            |  |   |                              |            |         |  |  |
| Terminal Plating / Grid Array                     | Mater  | ial  | Terminal B      | ase Alloy                | J-STD-020 MSL F                         | Rating         | Peak Pro                 | cess Body  | / Tempe  | rature Max Time                                     | at Peak Tem                  | perature   | Number  | of Reflow Cycles   |  |
| Nickel/Palladium/Gold (Ni/Pd/Au) CU Alloy         |        |  | 1               |                          |   | 260 (          |                          |            | ;  | 30 seconds  |                              | 3          |         |  |  |
| DISCLAIMER: While STM                             | /licro | electronics has end  | eavored t       | o provide inf            | ormation which                          | is accu        | rate and                 | up to da   | te, this   | document an   | d its conten                 | ts are p   | rovided | l on a strict "as is"  |  |

| Save the fields in<br>this form to a fileExport DataImport fields from a<br>file into this formImport Data   |   | Locked  |  |  |  |  |  |  |  |  |  |
|--|---|---|--|--|--|--|--|--|--|--|--|
| RoHS Material Composition Declaration  | Declaration Type  | * Simplified  |  |  |  |  |  |  |  |  |  |
| RoHS Directive<br>2002/95/ECRoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB),<br>Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (1000 PPM) of homogeneous material for Cadmium   |   |   |  |  |  |  |  |  |  |  |  |
| Supplier certifies that it gathered the information it provides in this form concerning RoHS restrictive substances using appropriate methods to ensure its accuracy and that such information 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 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 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 certifications regarding their contributions to the part, and those certifications are at least as comprehensive as the certifications of that agreement, including any warranty rights and/or remedies provided as part of that agreement, will be the remedies for issues that arise regarding information the Supplier provides in this form. | e laws that implement the RoHS<br>Supplier has not independently<br>tion in this paragraph. If the Co | Directive. Company acknowledges that verified information provided by others, mpany and the Supplier enter into a |  |  |  |  |  |  |  |  |  |
| RoHS Declaration * 1 - Item(s) does not contain RoHS restricted substances per the definition above  | Supplier Acceptance *   | Accepted  |  |  |  |  |  |  |  |  |  |
| Exemptions: 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.   |   |   |  |  |  |  |  |  |  |  |  |
| 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   |   |   |  |  |  |  |  |  |  |  |  |

## 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 | Level                  | Substance Category |        | Substance | CAS     | Exempt | Weight  |  | Toleranc | PPM |
|------|--------------|--|-----------------|--------|---------|-------------|---------------------|---------|------------------------|--------------------|--------|-----------|---------|--------|---------|--|----------|-----|
| Name |              |  | Material        | Weight | Measure |             | oubstance oategory  |         |                        | UNU                | Exempt | Teigin    | Measure | - +    |         |  |          |     |
|      | EDO7*2702SA4 |  | Silicon Die     | 2.046  | mg      | Supplier    | Silicon die         |         | Silicon                | 7440-21-3          |        | 2.045     | mg      |        | 999,51  |  |          |     |
|      |              |  |                 |        |         | Supplier    | die metallization   |         | Aluminium(Al)          | 7429-90-5          |        | 0.001     | mg      |        | 489     |  |          |     |
|      |              |  | Leadframe       | 29.269 | mg      | Supplier    | alloy               |         | Copper (Cu)            | 7440-50-8          |        | 29.231    | mg      |        | 998,70  |  |          |     |
|      |              |  |                 |        |         |             |                     |         | Iron (Fe)              | 7439-89-6          |        | 0.013     | mg      |        | 444     |  |          |     |
|      |              |  |                 |        |         |             |                     |         | Iron Phosphide (FeP)   | 26508-33-8         |        | 0.025     | mg      |        | 854     |  |          |     |
|      |              |  | Leadframe coati | n0.144 | mg      | Supplier    | coating             |         | Nickel (Ni)            | 7440-02-0          |        | 0.134     | mg      | 0      | 930,55  |  |          |     |
|      |              |  |                 |        |         |             |                     |         | Palladium (Pd)         | 7440-05-3          |        | 0.005     | mg      |        | 34,722  |  |          |     |
|      |              |  |                 |        |         |             |                     |         | Gold (Au)              | 7440-57-5          |        | 0.005     | mg      |        | 34,722  |  |          |     |
|      |              |  | Die Attach      | 0.485  | mg      | Supplier    | glue                |         | Silver (Ag)            | 7440-22-4          |        | 0.364     | mg      |        | 750,51  |  |          |     |
|      |              |  |                 |        |         |             |                     |         | Epoxy Cresol Novolak   | 29690-82-2         |        | 0.12      | mg      |        | 247,42  |  |          |     |
|      |              |  |                 |        |         | Supplier    | Phthalates          |         | Dibutyl Phthalate      | 84-74-2            |        | 0.001     | mg      |        | 2,062   |  |          |     |
|      |              |  | Bonding wire    | 0.092  | mg      | Supplier    | Bonding wire        |         | Gold (Au)              | 7440-57-5          |        | 0.092     | mg      |        | 1,000,0 |  |          |     |
|      |              |  | Encapsulation   | 44.664 | mg      | Supplier    | Moulding Compound   |         | Epoxy Cresol Novolak   | 29690-82-2         |        | 4.466     | mg      |        | 99,990  |  |          |     |
|      |              |  |                 |        |         |             |                     |         | phenol resin           | 9003-35-4          |        | 2.233     | mg      |        | 49,996  |  |          |     |
|      |              |  |                 |        |         |             |                     |         | Carbon Black           | 1333-86-4          |        | 0.447     | mg      |        | 10,008  |  |          |     |
|      |              |  |                 |        |         |             |                     |         | Silica, vitreous       | 60676-86-0         |        | 35.732    | mg      |        | 800,01  |  |          |     |
|      |              |  |                 |        |         | Supplier    | Antimony/Antimony C | ;       | Antimony Trioxide      | 1309-64-4          |        | 0.893     | mg      |        | 19,994  |  |          |     |
|      |              |  |                 |        |         | JIG I       | Brominated Flame Re | t       | Brominated epoxy resin | 68928-70-1         |        | 0.893     | mg      |        | 19,994  |  |          |     |
|      |              |  |                 |        |         | h           |                     |         |                        |                    |        |           |         |        | -       |  |          |     |