



|                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------|-----------------------------|--------------------------------|-----------------------------|---------------------------------------------------|----------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Form Type</b>                                                                                                                                                                                                                                                                                                                            | Distribute                                                                                                                                                  | <b>Version</b>                             | 2.0                       | <b>Ref</b>                  | IPC 1752A                      | <b>Sectionals</b>           | Manufacturing Info/ Material Info                 | <b>Subsectionals</b> | D, A             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Supplier Information</b>                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Company Name</b>                                                                                                                                                                                                                                                                                                                         | TE Connectivity                                                                                                                                             | <b>Request Document ID</b>                 |                           | <b>Contact Name</b>         | Penica, John R                 | <b>Contact Title</b>        | Sr Mgr Environmental Engineering, IND Central Eng |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Company Unique ID</b>                                                                                                                                                                                                                                                                                                                    | TE Connectivity                                                                                                                                             | <b>Response Date</b>                       | 2015-10-12                | <b>Contact Email</b>        | jrpenica@te.com                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Contact Phone Number</b>                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                             | +1-717-592-3266                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Legal Statement</b>                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Supplier Acceptance</b>                                                                                                                                                                                                                                                                                                                  | true                                                                                                                                                        |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Legal Statement</b>                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| The information provided in this document is based upon reasonable inquiry of our suppliers. This information is subject to change. This information does not in any way modify existing purchase specifications or existing contractual or other agreements terms between TE Connectivity (or its affiliated companies) and its customers. |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Product</b>                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Manufacturer Item number</b>                                                                                                                                                                                                                                                                                                             | 350764-4                                                                                                                                                    | <b>Amount</b>                              | 6630.0                    | <b>Version</b>              | -                              | <b>Identity</b>             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Manufacturer Item Name</b>                                                                                                                                                                                                                                                                                                               | 12P UMNL HDR ASSY PC                                                                                                                                        | <b>Weight Uom</b>                          | mg                        | <b>Mfr Site</b>             |                                | <b>Authority</b>            |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Date</b>                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                             | <b>UOM</b>                                 | Each                      |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>EUROHS-0508</b>                                                                                                                                                                                                                                                                                                                          | Product(s) meets EU RoHS requirement without any exemptions                                                                                                 |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>ChinaRoHS-0508</b>                                                                                                                                                                                                                                                                                                                       | Product(s) is eligible for marking with the e code under China's Measures for Administration of the control of pollution by Electronic Information Products |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>EUREACH-1214</b>                                                                                                                                                                                                                                                                                                                         | REACH Candidate Substances of Very High Concern ARE NOT Contained in the Product Above the Limits per the Definition within REACH                           |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Manufacturing Information</b>                                                                                                                                                                                                                                                                                                            |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>J-STD-020 MSL Rating</b>                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                             | <b>Max Total a Wave Time</b>               |                           | <b>Ramp Rate</b>            |                                | <b>Wave Additional Info</b> |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Classification Temp</b>                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                             | <b>Max Wave Solder Time</b>                | 10.0                      | <b>Ramp Down Rate</b>       |                                | <b>PSI Rating Reflow</b>    |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Max Time Within 5</b>                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                             | <b>PSI Rating Wave</b>                     |                           | <b>Package Designator</b>   |                                | <b>Size</b>                 | 0.0                                               |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Time Above 217</b>                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                             | <b>Reflow Additional Info</b>              |                           | <b>Preheat Max Temp</b>     |                                | <b>Terminal Base Alloy</b>  | NAC                                               |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Preheat Duration</b>                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                             | <b>bulk Solder Termination</b>             | NAC                       | <b>Nbr or Reflow Cycles</b> |                                | <b>Terminal Plating</b>     | Tin                                               |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Preheat Min Temp</b>                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                             | <b>Nbr of Instances</b>                    | 0                         | <b>Component Temp Spike</b> |                                | <b>Shape</b>                | NAC                                               |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Product Disclosure</b>                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                             |                                            |                           |                             |                                |                             |                                                   |                      |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Sub-Item/Material/Substance</b>                                                                                                                                                                                                                                                                                                          | <b>Level</b>                                                                                                                                                | <b>Name</b>                                | <b>Substance Category</b> | <b>Substance CAS</b>        | <b>Substance Concentration</b> | <b>Quantity</b>             | <b>Mass per Unit</b>                              | <b>UOM</b>           | <b>Exemption</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sub-Item                                                                                                                                                                                                                                                                                                                                    | 1                                                                                                                                                           | MNL HDR SOK PC PTPPHBZ                     |                           |                             |                                | 12.0                        | 177.5                                             | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Material                                                                                                                                                                                                                                                                                                                                    | 2                                                                                                                                                           | Phos Bronze                                |                           |                             |                                | 12.0                        | 173.92                                            | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Copper                                     | Supplier                  | 7440-50-8                   | 94.6985                        | 12.0                        | 164.69963                                         | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Manganese                                  | Supplier                  | 7439-96-5                   | 0.02                           | 12.0                        | 0.034784                                          | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Chromium                                   | Supplier                  | 7440-47-3                   | 0.01                           | 12.0                        | 0.017392                                          | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Tin                                        | Supplier                  | 7440-31-5                   | 4.5                            | 12.0                        | 7.8264                                            | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Arsenic                                    | Supplier                  | 7440-38-2                   | 0.0050                         | 12.0                        | 0.008696                                          | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Iron                                       | Supplier                  | 7439-89-6                   | 0.1                            | 12.0                        | 0.17392                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Antimony                                   | Supplier                  | 7440-36-0                   | 0.01                           | 12.0                        | 0.017392                                          | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Beryllium                                  | Supplier                  | 7440-41-7                   | 0.0010                         | 12.0                        | 0.0017392                                         | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Zinc                                       | Supplier                  | 7440-66-6                   | 0.3                            | 12.0                        | 0.52176                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Phosphorus                                 | Supplier                  | 7723-14-0                   | 0.1                            | 12.0                        | 0.17392                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Cobalt                                     | Supplier                  | 7440-48-4                   | 0.1                            | 12.0                        | 0.17392                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Cadmium                                    | Cadmium/Cadmium Compounds | 7440-43-9                   | 0.0050                         | 12.0                        | 0.008696                                          | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Lead                                       | Lead/Lead Compounds       | 7439-92-1                   | 0.05                           | 12.0                        | 0.08696                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Nickel                                     | Nickel                    | 7440-02-0                   | 0.1                            | 12.0                        | 0.17392                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Mercury                                    | Mercury/Mercury Compounds | 7439-97-6                   | 5.0E-4                         | 12.0                        | 8.696E-4                                          | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Material                                                                                                                                                                                                                                                                                                                                    | 2                                                                                                                                                           | Tin Plate                                  |                           |                             |                                | 12.0                        | 3.58                                              | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Tin                                        | Supplier                  | 7440-31-5                   | 97.85                          | 12.0                        | 3.50303                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Contains No Reportable TE5081-2 Substances | Supplier                  | TE5081-2-0506               | 0.2                            | 12.0                        | 0.00716                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Substance                                                                                                                                                                                                                                                                                                                                   | 3                                                                                                                                                           | Zinc                                       | Supplier                  | 7440-66-6                   | 0.35                           | 12.0                        | 0.01253                                           | mg                   |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

|           |   |                                                           |                     |            |        |      |          |    |  |
|-----------|---|-----------------------------------------------------------|---------------------|------------|--------|------|----------|----|--|
| Substance | 3 | Copper                                                    | Supplier            | 7440-50-8  | 1.5    | 12.0 | 0.0537   | mg |  |
| Substance | 3 | Lead                                                      | Lead/Lead Compounds | 7439-92-1  | 0.1    | 12.0 | 0.00358  | mg |  |
| Sub-Item  | 1 | 12P UMNL HDR HSG NATL                                     |                     |            |        | 1.0  | 4500.0   | mg |  |
| Material  | 2 | PA66                                                      |                     |            |        | 1.0  | 4500.0   | mg |  |
| Substance | 3 | Poly[imino(1,6-dioxo-1,6-hexanediyl)imino-1,6-hexanediyl] | Supplier            | 32131-17-2 | 99.355 | 1.0  | 4470.975 | mg |  |
| Substance | 3 | Zinc oxide (ZnO)                                          | Supplier            | 1314-13-2  | 0.0020 | 1.0  | 0.09     | mg |  |
| Substance | 3 | Octadecanamide, N,N-1,2-ethanediylbis-                    | Supplier            | 110-30-5   | 0.3    | 1.0  | 13.5     | mg |  |
| Substance | 3 | Water                                                     | Supplier            | 7732-18-5  | 0.2    | 1.0  | 9.0      | mg |  |
| Substance | 3 | Aluminum, hydroxybis(octadecanoato- $\kappa$ O)-          | Supplier            | 300-92-5   | 0.14   | 1.0  | 6.3      | mg |  |
| Substance | 3 | Siloxanes and Silicones, di-Me                            | Supplier            | 63148-62-9 | 0.0030 | 1.0  | 0.135    | mg |  |