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| Materials Composition Declaration | This document is a declaration of the substances within the manufacturer listed item. Note: If the item is an assembly with lower level parts, the declaration encompasses all lower level materials for which the manufacturer has engineering responsibility. | | |
| See IPC Web Site for Information on IPC-1752a Series Standard http://www.ipc.org/ContentPage.aspx?pageid=Materials-Declaration | Form Type Distribute | Version 2.0 | |

| Supplier Information | | | |
|---|--|----------------------|--|
| Company Name M/A-COM Technology Solutions | Company Unique ID | Unique ID Authority | Response Date 29-Dec-2020 |
| Contact Name Hooi Hoon Chng | Contact Title Regulatory Compliance Analyst | Contact Phone | Contact Email hooihoon.chng@macom.com |
| authorized Representative Hooi Hoon Chng | Representative Title Regulatory Compliance Analyst | Representative Phone | Representative Email hooihoon.chng@macom.com |

| Legal Statement | | | |
|---|--|--|--|
| Legal Declaration Standard | Supplier Acceptance Accepted | | |
| Supplier certifies that it gathered the provided information and 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. 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(s), 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(s), 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 exclusive source of the Supplier's liability and the Company's remedies for issues that arise regarding information the Supplier provides in this form. | | | |

| Part List | | | | | |
|---------------------------|--|---------------------------------------|--------------------|----------------|-------------|
| Manufacturing Site: | | Total Measured Mass: | 57.83053 mg | Unit Type: | Each |
| Item Number | | Item Name | | Effective Date | Version |
| MAMF-011069-TR1000 | | Switch LNA Module,Dual Channel | | | |

| Query List | | |
|--|--|----------|
| Query | Statement | Response |
| Banned and Restricted - General | Compliant to certain chemical restrictions relevant to EU REACH Regulation Annex XVII; 2009/251/EC, EU/276/2010; Substances Control Act (TSCA); Switzerland Ordinance on Reduction of Risks from Chemical Products (ORRChim); Japan Law Concerning Prevention from Radiation Hazards and the evaluation of chemical substances Norwegian Product regulation; Laws for the Regulation of Nuclear Source Material, Nuclear Fuel Material and Reactors, 1986; EU-D 96/29/Euratom; U.S. Nuclear Regulatory Commission Title 10 CFR Part 20 | true |
| Beryllium Oxide | Compliant to European Industry Agreement DIGITIAEUROPE, CECED and EERA Joint Position Guidance on implementing article 11 of Directive 2002/96(EC) concerning information for treatment facilities) | true |
| California Prop 65 | Product does not contain chemicals relevant to the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). | false |
| EUREACH-0620 (209) External | Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH. | true |
| EUROHS - 0719 Directive 2011/65/EU & 2015/863/EU_Updated | Product Meets EU RoHS Requirements Without Any Exemptions | true |
| ODS & Green House Gases | Compliant with Montreal Protocol, US Clean Air Act; EC/1005/2009 on substances that deplete the ozone layer, EC/842/2006 on Fluorinated Greenhouse Gases & Law Concerning the Protection of the Ozone Layer. | true |
| Persistent Organic Pollutants | Compliant with laws relevant to Persistent Organic Pollutants - (EC) No 850/2004, EU No 519/2012; Canadian Environmental Protection Act, Japan Law concerning the evaluation of chemical substances, US Toxic Substance Control Act (TSCA), Norway Product Regulations, & Swiss Ordinance on Reduction of Risk from Chemical Products. | true |

| Homogeneous Materials | | | | | | | |
|-----------------------|-------------------|---------------------|--------------------|-------------------------|---|---------------------|---------------------|
| SubProduct | SubProd Mass (mg) | Material | Material Mass (mg) | Substance | CAS | Substance Mass (mg) | Concentration (ppm) |
| Part1 | 29.324 | Leadframe | 29.324 | Iron | 7439-89-6 | 0.68911 | 23,500 |
| | | | | Phosphorus | 7723-14-0 | 0.02199 | 750 |
| | | | | Zinc | 7440-66-6 | 0.03666 | 1,250 |
| | | | | Copper | 7440-50-8 | 28.27717 | 964,301 |
| | | | | Nickel | 7440-02-0 | 0.28151 | 9,600 |
| | | | | Palladium | 7440-05-3 | 0.00715 | 244 |
| | | | | Silver | 7440-22-4 | 0.00601 | 205 |
| | | | | Gold | 7440-57-5 | 0.0044 | 150 |
| Part2 | 0.20683 | Die attach material | 0.20683 | Silver | 7440-22-4 | 0.19027 | 919,934 |
| | | | | Resin | Trade Secret | 0.00414 | 20,016 |
| | | | | Hardener | Trade Secret | 0.00414 | 20,016 |
| | | | | Epoxy resin | Trade Secret | 0.00414 | 20,016 |
| | | | | Miscellaneous Non-Regul | Trade Secret | 0.00414 | 20,016 |
| Part3 | 0.4386 | Gold wire | 0.4386 | Gold | 7440-57-5 | 0.43856 | 999,909 |
| | | | | Miscellaneous Non-Regul | Trade Secret | 0.00004 | 91 |
| Part4 | 26.9412 | Mold compound | 26.9412 | Epoxy resin | Trade Secret | 0.26941 | 10,000 |
| | | | | Phenol Resin | Trade Secret | 0.26941 | 10,000 |
| | | | | Silica | 60676-86-0;76 31-86-9;14808- 60-7 | 26.26767 | 975,000 |
| | | | | Carbon Black | 1333-86-4 | 0.13471 | 5,000 |
| Part5 | 0.77294 | Die (U1, U2) | 0.77294 | Gallium Arsenide | 1303-00-0 | 0.77294 | 1,000,000 |
| Part6 | 0.14696 | Diode (U3, U4) | 0.14696 | Silicon | 7440-21-3 | 0.14696 | 1,000,000 |