

## 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 <b>M/A-COM Technology Solutions</b>	Company Unique ID	Unique ID Authority	Response Date <b>28-Dec-2020</b>
Contact Name <b>Hooi Hoon Chng</b>	Contact Title <b>Regulatory Compliance Analyst</b>	Contact Phone	Contact Email <b>hooihoon.chng@macom.com</b>
authorized Representative <b>Hooi Hoon Chng</b>	Representative Title <b>Regulatory Compliance Analyst</b>	Representative Phone	Representative Email <b>hooihoon.chng@macom.com</b>

### Legal Statement

Legal Declaration <b>Standard</b>	Supplier Acceptance <b>Accepted</b>	
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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:	0.17995 g	Unit Type:	Each
Item Number	Item Name		Effective Date	Version	
MAAP-011193	Amp,7x7mm, Lam, 7.7-8.5GHz,Tested,Bulk				

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 (g)	Material	Material Mass (g)	Substance	CAS	Substance Mass (g)	Concentration (ppm)
Part1	0.0276	LID	0.0276	Continuous Filament Fiber Glass	65997-17-3	0.012417	449,891
				Phenolic Resin	9003-35-4	0.009677	350,616
				Coal Tar Naphtha	64742-94-5	0.000671	24,312
				Silica	60676-86-0;76 31-86-9;14808-60-7	0.000055	1,993
				Non-Hazardous Ingredients	Trade Secret	0.004755	172,283
Part2	0.01205	Die	0.01205	Gallium Arsenide	1303-00-0	0.01043	865,560
				AlGaAs	37382-15-3	0	0
				Gold	7440-57-5	0.001553	128,880
				Germanium	7440-56-4	0	0
				Nickel	7440-02-0	0	0
				Titanium	7440-32-6	0.000002	166
				Tantalum Nitride	12033-62-4	0.000011	913
				Platinum	7440-06-4	0.000005	415
				Silicon Nitride(IV)	12033-89-5	0.000013	1,079
				Palladium	7440-05-3	0.000034	2,822
Part3	0.0035	Gold Wire	0.0035	Gold	7440-57-5	0.0035	1,000,000
Part4	0.125	PCB	0.125	Copper	7440-50-8	0.08625	690,000
Part5	0.002	Epoxy	0.002	Silica	60676-86-0;76 31-86-9;14808-60-7	0.022587	180,696
				Continuous Filament Fiber Glass	65997-17-3	0.011	88,000
				Formaldehyde	50-00-0	0.000013	104
				Cellulose	9004-34-6	0.000025	200
				Polyethylene	25038-59-9	0.000025	200
				Nickel	7440-02-0	0.005	40,000
				Lead	7439-92-1	0.000037	296
				Gold	7440-57-5	0.000063	504
				Photo initiating agent	Trade Secret	0.00007	35,000
				Additive	Trade Secret	0.000006	3,000
Part6	0.001	Ink	0.001	Silica	60676-86-0;76 31-86-9;14808-60-7	0.00004	20,000
				Acrylate monomer	Trade Secret	0.001	500,000
				Urethane Acrylate Prepolymer	113818-54-5	0.0007	350,000

				2-Hydroxyethyl acrylate	818-61-1	0.000184	92,000
Part6	0.0098	Epoxy	0.0098	Bisphenol F Type Liquid Epoxy Resin	9003-36-5	0.00539	550,000
				Alumina Trihydrate	21645-51-2	0.00441	450,000