

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
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Legal Statement		
Legal Declaration Standard	Supplier Acceptance Accepted	
<p>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.</p>		

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 DIGITIALEUROPE, 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
EU RoHS - 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;7631-86-9;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