

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 01-Nov-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:	4987.0085 mg	Unit Type:	Each
Item Number	Item Name			Effective Date	Version
MAAP-010169-000000	Amplifier,12W, 2.0-6.0 GHz				

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-0119 (197) External	Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH.	true
EUREACH-0120 (205) External	Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH.	true
EUREACH-0620 (209) External	Product(s) does not contain REACH Substances Of Very High Concern above the limits per the definition within REACH.	true
EUREACH-0719 (201) 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	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	0.6726	Die 2-5	0.6726	Silicon	7440-21-3	0.6726	1,000,000
Part2	14.4739	Die 1	14.4739	Gallium Arsenide	1303-00-0	14.4739	1,000,000
Part3	4,638.89	Ceramic Power Package	4,638.89	Aluminum Oxide	1344-28-1;110 92-32-3	3,723.197285	802,605
				Glass	Trade Secret	316.076673	68,136
				Iron	7439-89-6	199.872014	43,086
				Nickel	7440-02-0	158.038337	34,068
				Tungsten	7440-33-7	106.908287	23,046
				Chromium(III) Oxide, Pigment Green 17 (C.I.), Cr ₂ O ₃	1308-38-9	60.426423	13,026
				Silver	7440-22-4	32.537305	7,014
				Gold	7440-57-5	27.889118	6,012
				Molybdenum	7439-98-7	4.648186	1,002
				Cobalt	7440-48-4	4.648186	1,002
				Copper	7440-50-8	4.648186	1,002
Part4	0.489	Gold wire	0.489	Gold	7440-57-5	0.489	1,000,000
Part5	320.8	Ceramic	320.8	Aluminum Oxide	1344-28-1;110 92-32-3	295.136045	920,000
				Tungsten	7440-33-7	23.421012	73,008
				Gold	7440-57-5	1.501404	4,680
				Nickel	7440-02-0	0.741538	2,312
Part6	11.2	Solder preform	11.2	Gold	7440-57-5	8.940351	798,246
				Tin	7440-31-5	2.259649	201,754
Part7	0.483	Epoxy Conductive H35-175MP	0.483	Bisphenol F Type Liquid Epoxy Resin	9003-36-5	0.07245	150,000
Miscellaneous Non-Regul	Trade Secret	0.02415	50,000				
				Silver	7440-22-4	0.3864	800,000