

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 25-Oct-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:	6.17423 mg	Unit Type:	Each
Item Number	Item Name			Effective Date	Version
MASWSS0115TR-3000	SPDT,SC70 6LD,GAAS MMIC				

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	0.03529	Gold Wire	0.03529	Gold	7440-57-5	0.035286	999,887
				Miscellaneous Non-Regul	Trade Secret	0.000004	113
Part2	0.22427	Tin Plate	0.22427	Tin	7440-31-5	0.22425	999,911
				Miscellaneous Non-Regul	Trade Secret	0.00002	89
Part3	2.83612	Mold Compound	2.83612	Silica	60676-86-0;76 31-86-9;14808-60-7	2.50996	884,998
				Epoxy resin	Trade Secret	0.14181	50,001
				Poly[(O-Cresyl Glycidyl Ether)-Co-Formaldehyde]	29690-82-2	0.14181	50,001
				Phenol Resin	Trade Secret	0.02836	10,000
				Carbon Black	1333-86-4	0.01418	5,000
Part4	0.1427	Die	0.1427	Gallium Arsenide	1303-00-0	0.1427	1,000,000
Part5	2.91568	Leadframe	2.91568	Zinc	7440-66-6	0.00341	1,170
				Iron	7439-89-6	0.0668	22,911
				Phosphorus	7723-14-0	0.00085	292
				Lead	7439-92-1	0.00057	195
				Silver	7440-22-4	0.0733	25,140
				Copper	7440-50-8	2.77075	950,293
Part6	0.02017	Die attach material	0.02017	Silver	7440-22-4	0.01644	815,072
				Epoxy resin	Trade Secret	0.00202	100,149
				1,4-Bis (2,3-Epoxypropoxy) Butane	2425-79-8	0.00151	74,864
				Aromatic amine	Trade Secret	0.0002	9,916