

## 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
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## 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:	1.1943 mg	Unit Type:	Each
Item Number	Item Name		Effective Date	Version	
MASW-009444-TR3000	Switch,SPDT,1mmX1-PDFN-6LD				

## 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-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
EU RoHS - 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	0.09587	Die	0.09587	Gallium Arsenide	1303-00-0	0.09587	1,000,000
Part2	0.02806	Gold wire	0.02806	Gold	7440-57-5	0.028057	999,893
				Miscellaneous Non-Regul	Trade Secret	0.000003	107
Part3	0.52338	Mold compound	0.52338	Metal Hydroxide	Trade Secret	0.00523	9,993
				Carbon Black	1333-86-4	0.00262	5,006
				Silica	60676-86-0;7631-86-9;14808-60-7	0.50245	960,010
				Epoxy resin	Trade Secret	0.00785	14,999
				Phenol Resin	Trade Secret	0.00523	9,993
Part4	0.52998	Lead frame	0.52339	Copper	7440-50-8	0.51962	992,797
				Chromium	7440-47-3	0.00141	2,694
				Tin	7440-31-5	0.00131	2,503
				Zinc	7440-66-6	0.00105	2,006
		Nickel plating	0.00608	Nickel	7440-02-0	0.00608	1,000,000
		Palladium plating	0.00049	Palladium	7440-05-3	0.00049	1,000,000
		Gold plating	0.00002	Gold	7440-57-5	0.00002	1,000,000
Part5	0.01701	Die attach material	0.01701	Epoxy resin	Trade Secret	0.00119	69,959
				Phenol Resin	Trade Secret	0.00051	29,982
				Dicyandiamide	461-58-5	0.00017	9,994
				Silver	7440-22-4	0.0131	770,135
				Bisphenol F Type Liquid Epoxy Resin	9003-36-5	0.00204	119,929