

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:	73.83939 mg	Unit Type:	Each
Item Number	Item Name		Effective Date	Version	
MAALSS0042TR-3000	Amplifier Low Noise,SMT,SOIC-8,RoHs				

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	24.4421	Leadframe	24.4421	Copper	7440-50-8	22.59244	924,325
				Iron	7439-89-6	0.57439	23,500
				Lead	7439-92-1	0.00244	100
				Phosphorus	7723-14-0	0.02016	825
				Zinc	7440-66-6	0.03055	1,250
				Silver	7440-22-4	1.22211	50,000
Part2	0.06327	Die attach material	0.06327	Silver	7440-22-4	0.05157	815,078
				Epoxy resin	Trade Secret	0.00633	100,047
				1,4-Bis (2,3-Epoxypropoxy) Butane	2425-79-8	0.00475	75,075
				Aromatic amine	Trade Secret	0.00063	9,957
Part3	0.2143	Gold wire	0.2143	Gold	7440-57-5	0.21428	999,907
				Miscellaneous Non-Regul	Trade Secret	0.00002	93
Part4	1.33914	Lead finish	1.33914	Tin	7440-31-5	1.33901	999,903
				Miscellaneous Non-Regul	Trade Secret	0.00013	97
Part5	46.9286	Mold compound	46.9286	Silica	60676-86-0;7631-86-9;14808-60-7	41.53181	885,000
				Epoxy resin	Trade Secret	2.34643	50,000
				Poly[(O-Cresyl Glycidyl Ether)-Co-Formaldehyde]	29690-82-2	2.34643	50,000
				Phenol Resin	Trade Secret	0.46929	10,000
				Carbon Black	1333-86-4	0.23464	5,000
Part6	0.80752	Die (U1)	0.80752	Gallium Arsenide	1303-00-0	0.80752	1,000,000
Part7	0.04446	Capacitor (C1)	0.04446	Silicon	7440-21-3	0.04446	1,000,000