



Material Composition Declaration

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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.

Adobe Reader version 7.0.5 is required to complete this declaration.

1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x	Form Type * Distribute	Declaration Class * Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg Informat
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Supplier Information

Company Name * RAMI TECHNOLOGY USA LL	Company Unique ID	Unique ID Authority	Response Date * 2022-09-03	Response Document ID				
Contact Name * YG Jiao	Title - Contact QA manager	Phone - Contact * 0755-21537133	Email - Contact * yg.jiao@raltron.com	Duplicate Contact -> Authorized Representative				
Authorized Representative * John.Ivens	Title - Representative QA manager	Phone - Representative * 305-593-6033	Email - Representative * john.ivals@raltron.com	Supplier Comments or URL for Additional Information				
Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight *	UOM	Unit Type
	RSE Product Family	RSE-H14 Product Family	2022-09-03			27.355	mg	Each
Alternate Recommendation				Alternate Item Comments				

Manufacturing Process Information

Terminal Plating / Grid Array Material Matte Tin (Sn)	Terminal Base Alloy Kovar	J-STD-020 MSL Rating 1	Peak Process Body Temperature 245 C	Max Time at Peak Temperature 10 seconds	Number of Reflow Cycles 2
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Comments

Save the fields in this form to a file

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Import Data

Clear all of the fields on this form

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Lock Supplier Fields

RoHS Material Composition Declaration

Declaration Type *

Detailed

RoHS Directive 2002/95/EC

RoHS Definition: Quantity limit of 0.1% by mass (1000 PPM) in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium, Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE) and quantity limit of 0.01% by mass (100 PPM) of homogeneous material for Cadmium

Please indicate whether any homogeneous material (as defined by the RoHS Directive, EU 2002/95/EC and implemented by the laws of the European Union member states) of the part identified on this form contains lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls and/or polybrominated diphenyl ethers (each a "RoHS restricted substance") in excess of the applicable quantity limit identified above. If a homogeneous material within the part contains a RoHS restricted substance in excess of an applicable quantity limit, please indicate below which, if any, RoHS exemption you believe may apply. If the part is an assembly with lower level components, the declaration shall encompass all such components. Supplier certifies that it gathered the information it provides in this form using appropriate methods to ensure its accuracy and that 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 with European Union member state laws that implement the RoHS Directive. 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, 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, 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. In the absence of such written agreement, the warranty rights and/or remedies of Supplier's Standard Terms and Conditions of Sale applicable to such part shall apply.

RoHS Declaration *

3 - Item(s) does not contain RoHS restricted substances per the definition above except for lead in solders and selected exemptions, if any

Supplier Acceptance *

Accepted

Exemptions: If the declared item does not contain RoHS restricted substances per the definition above except for defined RoHS exemptions, then select the corresponding response in the RoHS Declaration above and choose all applicable exemptions.

Exemption List Version

EL-2006/690/EC

+ - 7a. Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85% by weight or more lead).

Declaration Signature

Instructions: Complete all of the required fields on all pages of this form. Select the "Accepted" on the Supplier Acceptance drop-down. This will display the signature area. Digitally sign the declaration (if required by the Requester) and click on Submit Form to have the form returned to the Requester.

Supplier Digital Signature

YG Jiao

数字签名: YG Jiao
DN: cn=YG Jiao, o=RAMI TECHNOLOGY USA LLC, ou=QA,
email=ygjiao@ramitechnology.com, c=CN
日期: 2013.08.27 09:46:08 +08'00'

Homogeneous Material Composition Declaration for Electronic Products

SubItem Instructions: The presence of any JIG Level A or B substances must be declared. [1] indicate the subpart in which the substance is located, [2] provide a description of the homogeneous material [3], enter the weight of the homogeneous material.

Substance Instructions: [A] select the Level (JIG A, JIG B, Requester or Supplier) [B] select the substance category (JIG or Requester) or enter a value (Supplier). [C] select the substance (JIG) or enter the substance and CAS (Other). [D] select a RoHS exemption, if applicable [E] enter the weight of the substance or the PPM concentration [F] Optionally enter the positive (+) and negative (-) tolerance in percent (Note: percent tolerance values are expected to cover a 3 sigma range of distribution unless otherwise noted).

Line Functions: +I Inserts a New Item /SubItem +M Inserts a new Material +C Inserts a new Substance Category +S Inserts a new Substance - Deletes the element line

	Item/SubItem Name		Homogeneous Material	Weight	Unit of Measure		Level	Substance Category		Substance	CAS	Exempt	Weight	Unit of Measure	Tolerance		PPM	
															-	+		
+I	-I	RSE-H14	+M -M	Base	4.774	mg	+C -C	Supplier	Metal Ring	+S -S	Fe	7439-89-6		0.807	mg			
										+S -S	Co	7440-48-4		0.007	mg			
										+S -S	Mn	7439-96-5		0.006	mg			
										+S -S	Si	7440-21-3		0.002	mg			
										+S -S	C	7440-44-0		0.001	mg			
			+C -C	Supplier	Glass					+S -S	SiO2	14808-60-7		0.308	mg			
										+S -S	Al2O3	1344-28-1		0.044	mg			
										+S -S	B2O3	1303-86-2		0.081	mg			
										+S -S	Li2O	12057-24-8		0.011	mg			
										+S -S	Na2O	1313-59-3		0.044	mg			
										+S -S	K2O	12136-45-5		0.011	mg			
			+C -C	Supplier	LEADS					+S -S	Fe	7439-89-6		1.196	mg			
										+S -S	Co	7440-48-4		0.379	mg			
										+S -S	Si	7440-21-3		0.006	mg			
										+S -S	Mn	7439-96-5		0.002	mg			
			+C -C	Supplier	Surface coating					+S -S	Cu	7440-50-8		0.044	mg			
										+S -S	Sn	7440-31-5		0.079	mg			
			+C -C	A	Lead/Lead Compound					+S -S	Lead	7439-92-1	7c. Lead	0.527	mg			
			+C -C	B	Nickel (external applic					+S -S	Nickel	7440-02-0		1.219	mg			
	+M	-M	Cover		8.277	mg	+C -C	Supplier	Metal Case	+S -S	Cu	7440-50-8		5.078	mg			
										+S -S	Fe	7439-89-6		0.003	mg			
										+S -S	Zn	1314-13-2		1.496	mg			
			+C -C	B	Nickel (external applic					+S -S	Nickel	7440-02-0		1.7	mg			

+M	-M	Quartz Crystal	0.972	mg	+C	-C	Supplier	Quartz	+S	-S	SiO2	14808-60-7		0.346	mg				
					+C	-C	Supplier	Blank Mtalization	+S	-S	Cr	7440-47-3		0.0006	mg				
									+S	-S	Ag	7440-22-4		0.0004	mg				
					+C	-C	Supplier	Solder	+S	-S	Ag	7440-22-4		0.028	mg				
									+S	-S	Sn	7440-31-5		0.063	mg				
					+C	-C	A	Lead/Lead Compound	+S	-S	Lead	7439-92-1	7a. Lead	0.534	mg				
+M	-M	Plastic mold	9.967	mg	+C	-C	Supplier	Epoxy compound	+S	-S	C7H8O3S C4H9NO	13732-62-2		0.535	mg				
									+S	-S	Epoxy Resin	85954-11-6		1.237	mg				
									+S	-S	Amorphous silica	T112945-55		7.245	mg				
									+S	-S	Zinc Borate	1332-07-6		0.531	mg				
									+S	-S	Carbon Black	01333-86-4		0.227	mg				
									+S	-S	C9H20O5Si	2530-83-8		0.192	mg				
+M	-M	Lead Frame	3.365	mg	+C	-C	Supplier	Metal Frame	+S	-S	Cu	7440-50-8		2.892	mg				
									+S	-S	Zn	1314-13-2		0.424	mg				
					+C	-C	Supplier	Surface coating	+S	-S	Sn	7440-31-5		0.048	mg				
									+S	-S	Cu	7440-50-8		0.001	mg				