



Material Composition Declaration

© Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.

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
------------	--	---------------------------	--

Supplier Information

Company Name * Raltron / RAMI Technology	Company Unique ID	Unique ID Authority	Response Date *	Response Document ID				
Contact Name * YG Jiao	Title - Contact QA manager	Phone - Contact * 0755-21537133	Email - Contact * ygjiao@ramitechnology.com	Duplicate Contact -> Authorized Representative				
Authorized Representative * Frank Parra	Title - Representative QA Director	Phone - Representative * 305-593-6033	Email - Representative * frank@ramitechnology.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
	TX257A Family	Stratum3 TCXO	2020-08-27			128.26	mg	Each
Alternate Recommendation				Alternate Item Comments				

Manufacturing Process Information

Terminal Plating / Grid Array Material Gold (Au)	Terminal Base Alloy Kovar	J-STD-020 MSL Rating 1	Peak Process Body Temperature 260 C	Max Time at Peak Temperature 10 seconds	Number of Reflow Cycles 2
--	-------------------------------------	----------------------------------	---	---	-------------------------------------

Comments

Save the fields in this form to a file

Export Data

Import fields from a file into this form

Import Data

Clear all of the fields on this form

Reset Form

Lock the fields on this form to prevent changes

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 *

1 - Item(s) does not contain RoHS restricted substances per the definition above

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.

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 09:46:06 +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	+M	-M			+C	-C		+S	-S					-	+					
+I	-I	+M	-M	TX257 series	Base	66.456	mg	+C	-C	Supplier	Ceramic	+S	-S	Al2O3	1344-28-1		52.7	mg			
									+S	-S				Mn2O3	1317-34-6		0.28	mg			
									+S	-S				SiO2	7631-86-9		2.28	mg			
									+S	-S				MoO3	1313-27-5		0.04	mg			
									+S	-S				MgO	1309-48-4		0.416	mg			
								+C	-C	Supplier	Metalization	+S	-S	Mo	7439-98-7		1.22	mg			
								+C	-C	Supplier	Under plating	+S	-S	Co	7440-48-4		2.912	mg			
								+C	-C	Supplier	Plating	+S	-S	Au	7440-57-5		2.08	mg			
									+S	-S				Tl	7440-28-0		0.0003	mg			
								+C	-C	B	Nickel (external applic	+S	-S	Nickel	7440-02-0		4.4	mg			
+I	-I	+M	-M	IC	IC DIE	0.43608	mg	+C	-C	Supplier	IC Die	+S	-S	Si	7440-21-3		0.4329	mg			
									+S	-S				B	7440-42-8		0.00001	mg			
									+S	-S				P	7723-14-0		0.00005	mg			
									+S	-S				Al	7429-90-5		0.0016	mg			
									+S	-S				Cu	7440-50-8		0.00002	mg			
									+S	-S				W	7440-33-7		0.0005	mg			
									+S	-S				Ti	7440-32-6		0.001	mg			
								+C	-C	B	Arsenic/Arsenic Comp	+S	-S	Arsenic	7440-38-2		0.00001	mg			
+I	-I	+M	-M	Capacitor (Qty 3)	Ceramic Substr	3.03	mg	+C	-C	Supplier	Material	+S	-S	Calcium Zirconate	13463-67-7		3.03	mg			
		+M	-M		Termination Elm	0.66	mg	+C	-C	Supplier	Copper	+S	-S	Cu	7440-50-8		0.66	mg			
		+M	-M		Surface plating	0.15	mg	+C	-C	Supplier	Tin	+S	-S	Sn	7440-31-5		0.15	mg			
		+M	-M		Under plating	0.96	mg	+C	-C	B	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.96	mg			
+I	-I	+M	-M	Epoxy	Epoxy Resin	0.6102	mg	+C	-C	Supplier	Epoxy Resin	+S	-S	SiO2	60676-86-0		0.3261	mg			

		+S	-S	trade secret			trade secret			0.2841	mg											
+I	-I	Conductive Adhesive		+M	-M	conductive adhesive		0.0664	mg	+C	-C	Supplier	Silver	+S	-S	Ag	7440-22-4	0.05	mg			
										+C	-C	Supplier	Silicon	+S	-S	Si	7440-21-3	0.0164	mg			
+I	-I	Crystal for TCXO		+M	-M	Crystal Blank		0.2928	mg	+C	-C	Supplier	Quartz Blank	+S	-S	SiO2	14808-60-7	0.2928	mg			
				+M	-M	Plating		0.01	mg	+C	-C	Supplier	Electrode	+S	-S	Cr	7440-47-3	0.00011	mg			
														+S	-S	Silver	7440-22-4	0.011	mg			
		+M	-M	Base		47.73	mg	+C	-C	Supplier	Ceramic	+S	-S	Al2O3	1344-28-1	36.23	mg					
														+S	-S	SiO2	14808-60-7	2.415	mg			
														+S	-S	Cr2O3	1308-38-9	0.805	mg			
														+S	-S	MO	7439-98-7	0.805	mg			
														+S	-S	Fe	7439-89-6	0.978	mg			
														+S	-S	Co	7440-48-4	0.332	mg			
														+S	-S	Au	7440-57-5	0.111	mg			
														+S	-S	W	7440-33-7	1.8	mg			
														+S	-S	Ag	7440-22-4	1.267	mg			
														+S	-S	Cu	7440-50-8	0.518	mg			
										+C	-C	B	Nickel (external applic	+S	-S	Nickel	7440-02-0	2.469	mg			
+M	-M	Cover		7.535	mg	+C	-C	Supplier	Metal	+S	-S	CO	7440-48-4	1.281	mg							
														+S	-S	Mn	16397-91-4	0.038	mg			
														+S	-S	Fe	7439-89-6	4.031	mg			
										+C	-C	B	Nickel (external applic	+S	-S	Nickel	7440-02-0	2.185	mg			
+M	-M	Conductive Adhesive		0.383	mg	+C	-C	Supplier	Ploymer	+S	-S	CH3(CH2)9CH3	1120-21-4	0.042	mg							
														+S	-S	CH3(CH2)10CH3	112-40-3	0.042	mg			
														+S	-S	Ag	7440-22-4	0.266	mg			
														+S	-S	Silicon resin	67763-03-5	0.033	mg			