ADDOCATION GOVERNO	© Co	terial Compo pyright 2005. IPC, Bannoc nternational and Pan-Ameri	kburn, Illinois	. All rights reser	Ition with lowe	r level		the item is an assembly the manufacturer has is declaration.								
1/52-2 1.1	•	Web Site for Informat		-1752 Standa	ard		m Type * tribute		Peclaration Class * lass 6 - RoHS Yes/No, Homogeneous Materials and Mfg Inform							
Supplier Information																
Company Name *		Company Unique ID		Unique ID Authority F			Response Date *			esponse D	ocument ID					
Raltron / RAMI Technolo	gy															
Contact Name *		Title - Contact		Phone - Contact *			I - Contac	t *		Dunlin	ata Camtaat	> 1th=========	Dennesantativa			
YG Jiao		QA manager		0755-21537133			o@ramited	chnology.	com	Duplicate Contact -> Authorized Representative						
Authorized Representati	ve *	Title - Representative	9	Phone - Representative *			l - Represe	entative *	S	Supplier Comments or URL for Additional Information						
Frank Parra		QA Director		305-593-603	frank@ramitechnology.com											
Requester Item Number	Mfr Item Number			Mfr Item Nam	е	Effecti	ive Date	Version M	lanufac	turing Site	Weight *	UOM	Unit Type			
		TV2914 Family		Stratum3 TC	XO	2020-	09-20				365.627	mg	Each			
Alternate Recommendation								Alternate Ite	em Corr	ments			<u>.</u>			
Manufacturing Proces	s In	formation														
Terminal Plating / Grid Array Material Termina			Terminal B	ase Alloy	J-STD-020 MSL F	ating	Peak Proc	ess Body Te	emperat	ure Max Ti	me at Peak Tem	perature Number of Reflow Cycles				
Gold (Au)			CU Alloy	,	1		260				10 s	econds 2				
Comments					-1		1			I						

Lock the fields on this Save the fields in Import fields from a Clear all of the Lock Supplier Fields **Export Data** Import Data Reset Form this form to a file file into this form fields on this form form to prevent changes

RoHS Material Composition Declaration

Declaration Type *

Detailed

2002/95/EC

RoHS Directive | 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

数字签名者: 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		Homogeneous Material	Weight	Unit of Measure			Level	Substance Category			Substance	CAS	Exempt	Weight	Unit of Measure	Toler		PPM
							-				_					Measure	-	+	
+1 -1	TV2914 series	+M -N	Base	66.456	mg	+C	-C	Supplier	Ceramic		-S		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	MoO3	1313-27-5		0.04	mg			
										+S	-s	MgO	1309-48-4		0.416	mg			ĺ
						+C	-C	Supplier	Metalization	+S	-S	Мо	7439-98-7		1.22	mg			
						+C	-C	Supplier	Under plating	+S	-S	Со	7440-48-4		2.912	mg			
						+C	-C	Supplier	Plating	+S	-s	Au	7440-57-5		2.08	mg			<u> </u>
							_			+S	-s	ті	7440-28-0		0.0003	mg			
						+C	-C	В	Nickel (external applic	+S	-s	Nickel	7440-02-0		4.4	mg			
+1 -1	Capacitor (Qty 2)	+M -N	Ceramic Substa	2.02	mg	+C	-C	Supplier	Material	+S	-S	Calcium Zirconate	13463-67-7		2.02	mg			
		+M -N	Termination	0.45	mg	+C	-C	Supplier	Copper	+S	-S	Cu	7440-50-8		0.45	mg			
		+M -N	Surface plating	0.1	mg	+C	-C s	Supplier	Tin	+S	-S	Sn	7440-31-5		0.1	mg			
		+M -N	Under plating	0.64	mg	+C	-C	В	Nickel (external applic	+S	-S	Nickel	7440-02-0		0.64	mg			
+1 -1	Resistor 0603	+M -N	Ceramic	1.662	mg	+C	-C s	Supplier	Aluminum oxide	+S	-S	Ai2O3	1344-28-1		1.59552	mg			
						+C	-C	Supplier	Silicon dioxide	+ S	-S	SiO2	14808-60-7		0.06648	mg			
		+M -N	Conductor	0.076	mg	+C	-C s	Supplier	Silver	+S	-S	Ag	7440-22-4		0.0656	mg			
						+C	-C	Supplier	Ruthenium Dioxide	+S	-S	RuO2	12036-10-1		0.0065	mg			<u> </u>
						+C	-C	Supplier	Palladium	+S	-S	Pd	7440-05-3		0.0039	mg			
		+M -N	Ероху	0.033	mg	+C	-C s	Supplier	Ероху	+S	-S	Ероху	29690-82-2		0.033	mg			
		+M -N	Plating Tin	0.078	mg	+C	-C	Supplier	Tin	+S	-S	Sn	7440-31-5		0.078	mg			
		+M -N	Plating Nickel	0.091	mg	+C	-C	В	Nickel (external applic	+S	-s	Nickel	7440-02-0		0.091	mg			
+1 -1	PCB Adapter	+M -N	PCB Board	82.697	mg	+C	-C	Supplier	PCB Material	+S	-S	Epoxy Resin	129915-35		39.276	mg			

		+\$ -\$	Glas	ss Cloth		659	97-17-3		33.274	mg											
		+S -S	Сор	per		744	0-50-8		8.139	mg											
		+S -S	Gold	d d		744	0-57-5		0.108	mg											
		+S -S	Misc	:		NO	CAS		1.246	mg											
		+C	-C B	I	Nickel (ex	ternal	applic +S	-S Nick	el		7	7440	-02-0			mg					
+I -I Solder	+M -M	Solder SAC	_				Supplier		Compos	sition +	s -s	Tir	n	1		7440-31-5		3.86	mg		
										+	s -s	Si	lver			7440-22-4		0.12	mg		
										+	s -s	S Co	opper			7440-50-8		0.02	mg		
+I -I Cover 9x14	+M -M	Cover Nicke	elSily	45.52	mg	+c -c	Supplier	Cover	Material	+:	s -s	Co	pper			7440-50-8		25.036	mg		\Box
		_			•	+C -C	Supplier	Cover	Alloy	+	s -s	Zir	nc			7440666	ı	12.29	mg		
						+C -C	В	Nickel (external	applic +	s -s	Nic	ckel			7440-02-0		8.194	mg		
+I -I IC	+M -M	IC DIE		0.43608	mg	+C -C	Supplier	IC Die		+:	s -s	SI				7440-21-3		0.4329	mg		
	_									+	s -	В				7440-42-8		0.00001	mg		
										+	s -s	S P				7723-14-0		0.00005	mg		
										+	s -	S AI				7429-90-5		0.0016	mg		
										+	s -s	Cı	u			7440-50-8		0.00002	mg		
										_	_	S W				7440-33-7		0.0005	mg		
										+	s -	3 Ti				7440-32-6		0.001	mg		
						+C -C		Arsenio	/Arsenio	Comr +	s -9	Ar	senic			7440-38-2		0.00001	mg		
+I -I Capacitor (Qty 3)	+M -M	Ceramic Su	bstr	3.03	mg	+C -C	Supplier	Materia	al	+:	s -s	Ca	lcium Z	Zirconat	e	13463-67-7	;	3.03	mg		
	+M -M	Termination	ı Eler	0.66	mg		Supplier	Coppe	r	+:	s -s	Cu	ı			7440-50-8	l	0.66	mg		
	+M -M	Surface plat	ting	0.15	mg	+C -C	Supplier	Tin		+:	s -s	Sn	ı			7440-31-5		0.15	mg		\square
	+M -M	Under platir	ng	0.96	mg	+C -C	В	Nickel (external	applic +	s -s	Nic	ckel			7440-02-0		0.96	mg	\square	
+I -I Epoxy	+M -M	Epoxy Resi	n	0.6102	mg	+C -C	Supplier	Ероху	Resin			Sic				60676-86-0			mg	\sqcup	
	1 1				T							_	ade sec	ret		trade sec		0.2841	mg	\square	
+I -I Conductive Adher	+M -M	conductive	adbe	0.0664			Supplier	Silver			_	Ag				7440-22-4		0.05	mg		
					ı		Supplier	Silicon			_	Si				7440-21-3	l	0.0164	mg		
+I -I Crystal for TCXO		Crystal Blar	-		mg	_	Supplier	Quartz			_	Sic				14808-60-7		0.2928			
	+M -M	Plating		0.01	mg	+C -C	Supplier	Electro	de			Cr				7440-47-3		0.00011	mg	igspace	\square
		1	Г		ı						_	Si				7440-22-4			mg	igsqcup	Щ.
	+M -M	Base		47.73	mg	+C -C	Supplier	Cerami	ic			Al				1344-28-1		36.23	mg	igspace	\square
										+	S -9	Si	O2			14808-60-7		2.415	mg		

															1									
	+S	-S	Cr2O3				1308-38-9		0.805	mg														
	+S	-s	М	MO Fe Co Au W			7439-98-7		0.805	mg														
	+S	-s	Fe				o u			7439-89-6		0.978	mg											
	+S	-s	Co							7440-48-4		0.332	mg											
	+S	-s	Αu							7440-57-5		0.111	mg											
	+S	-S	w							7440-33-7		1.8	mg	9										
	+S	-s	Ag	l			7440-22-4		1.267	mg														
	+S	-s	Cu	I			7440-50-8		0.518	mg														
						+C	-C B	Nickel ((external	applic	+S	-S	Nickel			7440-02-0	2	.469	mg					
+M -M Cov	/er			7.535	mg	+C	-C Supplier	Metal			+s	-S	со			7440-48-4	1.	.281	mg					
				•				•			+\$	-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 Coi	nduct	ive	Ad	0.383	mg	+C	-C Supplier	Ployme	er		+s	-S	СН3(С	H2)9CH	3	1120-21-4	0.	.042	mg					
	_										+\$	-S	CH3(CH2)10CH3			112-40-3	0	.042	mg					
											+S	-S	Ag			7440-22-4	0	.266	mg					
											+S	-S	Silicor	resin		67763-03-5	0	.033	mg					