ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES ®	© Co	terial Compo pyright 2005. IPC, Bannoc international and Pan-Ameri	kburn, Illinois	. All rights reserv	tion with lower	level p	arts, the	declaratio	n encomp		er level mat	erials for	which th	item is an assembly e manufacturer has eclaration.	
1752-2 1.1	IPC Web Site for Information on IPC-1752 Standard http://www.ipc.org/IPC-175x							Form Type * Declaration Class * Distribute Class 6 - RoHS Yes/No, Homogeneou							
Supplier Information															
Company Name *		Company Unique ID		Unique ID Au	uthority	Respo	onse Date	*	Re	sponse Doo	ument ID				
Ecliptek Corporation						2012-	01-31								
Contact Name *		Title - Contact		Phone - Cor	ntact *	Email	- Contac	t *							
Tom Culhane		V.P. of Engineering		(714) 433-12	200	qualit	y@eclipte	ek.com							
Authorized Representati	ve *	Title - Representative	Э	Phone - Rep	resentative *	Email	- Repres	entative	* Su	pplier Comr	nents or UR	L for Add	ditional In	formation	
Tom Culhane		V.P. of Engineering		(714) 433-12	200	qualit	y@eclipte	ek.com	ht	tp://www.e	cliptek.com	1/			
Requester Item Number	r	Mfr Item Number		Mfr Item Name	e	Effectiv	e Date	Version	Manufacti	ıring Site	Weight *	UC	OM	Unit Type	
		EB52F3 Series				2012-0)1-31		China		2,017.163	3 mg		Each	
Alternate Recommenda	ation							Alternate	Item Comr	nents					
Manufacturing Proces	ss In	formation				•									
Terminal Plating / Grid Array	Mater	ial	Terminal B	ase Alloy	J-STD-020 MSL R	ating	Peak Proc	ess Body	Temperatu	re Max Time	at Peak Ten	perature	Number o	of Reflow Cycles	
Matte Tin (Sn) - with Nic	kel (Ni) barrier	Kovar	-	1				240 C			econds		•	
Comments Terminal Plating Thickne	ess: T	Tin (3.0 to 6.0μm), N	ickel (2.0 t	to 4.0µm).											

Save the fields in this form to a file

Export Data

Import fields from a file into this form

Import Data

Locked

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 *

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

5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.

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 Tom Culhane

email=tculhane@ecliptek.com, c=l Date: 2012.01.26 08:48:56 -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	Weight	Unit of	Level	Substance Category	Substance	CAS	Evemnt	Weight	Unit of		rance	PPM
Name		Material	weight	Measure	Level	Substance Category	Substance	CAS	Exempt	vveigiit	Measure	-	+	FFIVI	
Resistor		Substrate	18.744	mg	Supplier	Aluminum Oxide	Aluminum Oxide	1344-28-1		18.744	mg	20	20		
		Element	1.177	mg	Supplier	Ruthenium Dioxide	Ruthenium Dioxide	12036-10-1		0.418	mg	20	20		
					A	Lead/Lead Compound	Lead (II) oxide	1317-36-8	5. Lead i	0.319	mg	20	20		
					Supplier	Silicon Oxide Glass	Silicon Oxide Glass	60676-86-0		0.055	mg	20	20		
					Supplier	Boron Oxide	Boron Oxide	1303-86-2		0.055	mg	20	20		
					Supplier	Epoxy Resin	Epoxy Resin	129915-35-		0.33	mg	20	20		
		Ceramic	1.199	mg	Supplier	Silver	Silver	7440-22-4		0.286	mg	20	20		
					Supplier	Palladium	Palladium	7440-05-3		0.011	mg	20	20		
					В	Nickel (external applic	Nickel	7440-02-0		0.484	mg	20	20		
					Supplier	Tin	Tin	7440-31-5		0.418	mg	20	20		
Capacitor		Ceramic	58.192	mg	Supplier	Aluminum Oxide	Aluminum Oxide	1344-28-1		58.192	mg	20	20		
		Electrode	25.168	mg	Supplier	Copper	Copper	7440-50-8		6.288	mg	20	20		
					В	Nickel (external applic	Nickel	7440-02-0		18.128	mg	20	20		
					Supplier	Tin	Tin	7440-31-5		0.752	mg	20	20		
Inductor		Terminal Paste	1.112	mg	Supplier	Silver	Silver	7440-22-4		1.102	mg	20	20		
		,			Supplier	Copper	Coppper	7440-50-8		0.002	mg	20	20		
					В	Nickel (external applic	Nickel	7440-02-0		0.004	mg	20	20		
					Supplier	Tin	Tin	7440-31-5		0.004	mg	20	20		
		Enameled Wire	0.72	mg	Supplier	Silver	Silver	7440-22-4		0.72	mg	20	20		
		Adhesive	0.304	mg	Supplier	Epoxy Resin	Epoxy Resin	129915-35- ⁻		0.304	mg	20	20		
		Ceramic	2.582	mg	Supplier	Iron Oxide	Iron Oxide	1332-37-2		1.29	mg	20	20		
					Supplier	Nickel Oxide	Nickel Oxide	1314-06-3		0.516	mg	20	20		
					Supplier	Copper Oxide	Copper Oxide	1317-38-0		0.388	mg	20	20		

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				Supplier	Zinc Oxide	Zinc Oxide	1314-13-2	0.388	mg	20	20	
	Molding Compo	4.862	mg	Supplier	Epoxy Resin	Epoxy Resin	129915-35- ⁻	4.862	mg	20	20	
Dynatron SOT-23	Active Device	0.04	mg	Supplier	Silicon	Silicon	7440-21-3	0.04	mg	20	20	
	Wire Bond	0.04	mg	Supplier	Gold	Gold	7440-57-5	0.04	mg	20	20	
	Lead Frame	0.88	mg	Supplier	Cobalt	Cobalt	7440-48-4	0.004	mg	20	20	
				Supplier	Iron	Iron	7439-89-6	0.496	mg	20	20	
				Supplier	Manganese	Manganese	7439-96-5	0.01	mg	20	20	
				В	Nickel (external applic	Nickel	7440-02-0	0.37	mg	20	20	
	Encapsulation	1.72	mg	Supplier	Ероху	Ероху	25928-94-3	0.31	mg	20	20	
				Supplier	Silica	Silica	14808-60-7	1.41	mg	20	20	
	Plating	0.102	mg	Supplier	Tin	Tin	7440-31-5	0.102	mg	20	20	
IC	Lead Frame	6.381	mg	Supplier	Copper	Copper	7440-50-8	6.218	mg	20	20	
				Supplier	Iron	Iron	7439-89-6	0.153	mg	20	20	
				Supplier	Zinc	Zinc	7440-66-6	0.008	mg	20	20	
				Supplier	Phosphorus	Phosphorus	7723-14-0	0.002	mg	20	20	
	Plastic	8.548	mg	Supplier	Silica	Silica	60676-86-0	6.161	mg	20	20	
				Supplier	Epoxy Resin	Epoxy Resin	25928-94-3	2.052	mg	20	20	
				В	Antimony/Antimony C	Antimony trioxide	1309-64-4	0.222	mg	20	20	
				В	Brominated Flame Ret	TBBA-epichlorhydrin oli	40039-93-8	0.113	mg	20	20	
	Chip	0.741	mg	Supplier	Silicon	Silicon	7440-21-3	0.736	mg	20	20	
				Supplier	Aluminum	Aluminum	7429-90-5	0.005	mg	20	20	
	Die Attach	0.246	mg	Supplier	Silver	Silver	7440-22-4	0.184	mg	20	20	
				Supplier	Epoxy Resin	Epoxy Resin	25928-94-3	0.062	mg	20	20	
	Wires	0.031	mg	Supplier	Gold	Gold	7440-57-5	0.031	mg	20	20	
	Ext. Lead Finish	0.801	mg	Supplier	Tin	Tin	7440-31-5	0.801	mg	20	20	
	Int. Lead Finish	0.062	mg	Supplier	Silver	Silver	7440-22-4	0.062	mg	20	20	
Crystal (UM-1)	Cover	52.89	mg	В	Nickel (external applic	Nickel	7440-02-0	52.89	mg	20	20	
	Base	157.73	mg	Supplier	Glass	Glass	65997-18-4	45.624	mg	20	20	
				Supplier	Iron	Iron	7439-89-6	60.942	mg	20	20	
				В	Nickel (external applic	Nickel	7440-02-0	32.276	mg	20	20	
				Supplier	Cobalt	 Cobalt	7440-48-4	18.888	mg	20	20	
				I								

		Plating	0.001	mg	Supplier	Gold		Gold	7440-57-5	0.001	mg	20	20
C	Crystal (Clip)	Retaining Clip	170	mg	Supplier	Iron		Iron	7439-89-6	170	mg	20	20
P	Package Cover	Base Metal	856.832	mg	Supplier	Carbon		Carbon	7440-44-0	1.114	mg	20	20
•					Supplier	Manganese		Manganese	7439-96-5	2.57	mg	20	20
					Supplier	Phosphorous		Phosphorous	7723-14-0	0.344	mg	20	20
					Supplier	Sulfur		Sulfur	7704-34-9	0.428	mg	20	20
					Supplier	Iron		Iron	7439-89-6	852.376	mg	20	20
		Plating	47.168	mg	В	Nickel (external applic		Nickel	7440-02-0	47.168	mg	20	20
L	ead (PIN)	Lead	84.276	mg	Supplier	Copper		Copper	7440-50-8	79.892	mg	20	20
•	·				Supplier	Tin		Tin	7440-31-5	4.212	mg	20	20
					Supplier	Phosphane		Phosphane	7723-14-0	0.172	mg	20	20
		Plating	2.824	mg	В	Nickel (external applic		Nickel	7440-02-0	1.412	mg	20	20
					Supplier	Tin		Tin	7440-31-5	1.412	mg	20	20
P	РСВ	Lamination	304.159	mg	Supplier	Epoxy Resin, fibergla		Epoxy Resin, fiberglass	Proprietary	304.159	mg	20	20
	·	Solder Mask	23.916	mg	Supplier	Epoxy Resin		Epoxy Resin	129915-35- ⁻	8.753	mg	20	20
					Supplier	Barium sulfide		Barium sulfide	21109-95-5	7.653	mg	20	20
					Supplier	Phthalocyanine Gree		Phthalocyanine Green	14302-13-7	0.073	mg	20	20
					Supplier	Aromatic Carbonyl C		Aromatic Carbonyl Con	70955-17-8	1.028	mg	20	20
					Supplier	Amine Compound		Amine Compound	68038-01-7	0.191	mg	20	20
					Supplier	Aromatic Hydrocarbo		Aromatic Hydrocarbon	63231-51-6	2.176	mg	20	20
					Supplier	Diethylene Glycol Mc		Diethylene Glycol Monc	629-38-9	3.085	mg	20	20
					Supplier	Dipropylene Glycol N		Dipropylene Glycol Moı	34590-94-8	0.55	mg	20	20
					Supplier	Leveling agents and		Leveling agents and otl	System	0.407	mg	20	20
		Metallization	161.925	mg	Supplier	Gold		Gold	7440-57-5	0.098	mg	20	20
					В	Nickel (external applic	•	Nickel	7440-02-0	1.764	mg	20	20
					Supplier	Copper		Copper	7440-50-8	160.063	mg	20	20