

1752-2 1.1

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.

ICP Web Site for information on IPC-1752 Standard http://www.ipc.org/IPC-175x

Declaration Class* Class 6 - RoHS Yes/No, Homogeneous Materials and Mfg

Form Type* Distribute Infomation

	Infoliation							
Supplier Information								
Company Name *	Company Unique ID	Unique ID Authority	Response Date*					
Fairchild Semiconductor	00-489-5751	Dun & Bradstreet	Sat, Aug 31, 2013 02:13 AM					
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *					
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Authorized Representative *	Title - Representative	Phone - Representative *	Email - Representative *					
David Lancaster	Product Ecology	801-562-7455	david.lancaster@fairchildsemi.com					

Requester Item Number	Mfr Ite	m Number	Mfr Item Name		Effective Date	Version	N	Ianufacturing Site	Weight*	UOM	Unit Type
ES1D	E	S1D	SMA T				SUBCONTRACTOR		0.064014	g	Each
Manufacturing Process Information											
Terminal Finish	Base Alloy	J-STD-0	J-STD-020 MSL Rating		Peak Process Body Temperature		Max Time at Peak Temperature		No Reflow cycles		
Matte Tin (Sn)	CU Alloy		1		260 C		30 seconds			3	

* Required Field

 RoHS Material Composition Declaration
 Declaration Type * Custom

 RoHS Directive 2011/65/EU
 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

This document is Fairchild Semiconductor's statement regarding the directive 2011/65/EU of the European Parliament and of the council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Recast). The content of this document is based upon information collected from Fairchild Semiconductor supply chain, manufacturing facilities and affiliates worldwide.

The FSC part number listed above and the homogenous materials in the product are compliant with the Directive 2011/65/EU. Fairchild has implemented systems to ensure our products are compliant to environmental regulations and laws worldwide. However, not all materials in Fairchild's products may have been independently verified regarding substance content. In the event of any issues arising from information in this document, the warranty section of Fairchild's standard terms and conditions of sale shall apply, unless alternate contracts have been agreed upon in writing by both parties.

Note: The substance content disclosed herewith is approximate and is based on various methods including, engineering calculations, supplier surveys, Material Safety Data Sheets, analytical measurements. Fairchild may update this document without notification. This statement may not include information regarding the miniscule quantities of dopant and metal materials in the electrical devices contained within the finished product. CAS numbers listed for Resin substances are generic and may contain alternate substances of similar composition.

RoHS Declaration * 4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions 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-2011/534/EU

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

Declaration Signature

Tand Loncosto

Supplier Signature

DAVID LANCASTER - PRODUCT ECOLOGY MANAGER

Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name SMA T

Component	Component Material V		Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	1.278	А	Lead/Lead Compounds	Glass (25%Pb)	0.118	7439-92-1	1843
			Supplier		Gold	0.002	7440-57-5	30
			В	Nickel (external applications only)	Nickel	0.008	7440-02-0	130
			Supplier		Silicon	1.150	7440-21-3	17965
Encapsulation	Thermoplastics	41.002	В	Antimony/Antimony Compounds	Antimony Trioxide	0.821	1309-64-4	12825
			В	Brominated Flame Retardants (other than PBCs or PBDEs)	Bromine Resin	0.821	6386-73-8	12825
			Supplier		Carbon Black	0.410	1333-86-4	6405
			Supplier		Epoxy Resin	6.150	29690-82-2	96073
			Supplier		Phenolic Resin	4.100	9003-35-4	64049
			Supplier		Silica, vitreous	28.700	14808-60-7	448341
Lead Frame	Copper & its alloys	18.600	Supplier		Copper	18.600	7440-50-8	290563
			Supplier		Iron	0.024	7439-89-6	375
			Supplier		Phosphorus	0.012	7723-14-0	187
Plating	Other Nonferrous metals & alloys	1.000	Supplier		Tin	1.000	7440-31-5	15622
Solder Wafer	Other Nonferrous metals & alloys	2.098	А	Lead/Lead Compounds	Lead	1.940	7439-92-1	30306
			Supplier		Silver	0.053	7440-22-4	820
			Supplier		Tin	0.105	7440-31-5	1640