

ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®

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.

1752-2 1.1

ICP 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 Infomation

Supplier Information							
Company Name * Fairchild Semiconductor			Response Date* Sat, Aug 31, 2013 03:15 AM				
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *				
David Lancaster Authorized Representative *	Product Ecology Title - Representative		david.lancaster@fairchildsemi.com Email - Representative *				
David Lancaster	1 1	I	david.lancaster@fairchildsemi.com				

Requester Item Number	Mfr Item Number		Mfr Item Name	Effective Date		Version	Manufacturing Site		Weight*	UOM	Unit Type	
FSTD16211MTDX	FSTD16211MTDX		SSOP-56 (NiPdAu) (G)	iPdAu)			INTERNAL PENANG		0.223028	g	Each	
Manufacturing Process Information												
Terminal Finish	1	Base Alloy	J-STD-020 MSL	Rating	Peak P	rocess Boo	dy Temperature	erature Max Time at Peak Tem		ure N	No Reflow cycles	
Nickel/Palladium/Gold (N	i/Pd/Au)	CU Alloy	2			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 *

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.

Exemption List Version EL-2011/534/EU

None

Declaration Signature

Supplier Signature

DAVID LANCASTER - PRODUCT ECOLOGY MANAGER

Tand Loneasto

Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name TSSOP-56 (NiPdAu) (G)

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	2.050	Supplier		Silicon	2.050	7440-21-3	9192
Die Attach	Other Organic Materials	0.254	Supplier		Acrylic Resin	0.064	54208-63-8	285
			Supplier		Silver	0.191	7440-22-4	856
Encapsulation	Thermoplastics	126.000	Supplier		Carbon Black	1.259	1333-86-4	5645
			Supplier		Epoxy Resin	12.590	29690-82-2	56450
			Supplier		Silica, vitreous	112.051	60676-86-0	502409
Lead Frame	Copper & its alloys	85.300	Supplier		Copper	81.100	7440-50-8	363632
			Supplier		Magnesium	0.128	7439-95-4	574
			В	Nickel (external applications only)	Nickel	2.560	7440-02-0	11478
			Supplier		Silicon	0.554	7440-21-3	2484
			Supplier		Silver	0.938	7440-22-4	4206
Plating	Precious metals	8.150	Supplier		Gold	0.155	7440-57-5	695
			В	Nickel (external applications only)	Nickel	7.770	7440-02-0	34839
			Supplier		Palladium	0.228	7440-05-3	1022
Wire Bond	Precious metals	1.390	Supplier		Gold	1.390	7440-57-5	6232