



Material Composition Declaration
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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/ContentPage.aspx?pageid=Materials-Declaration

Form Type*
Distribute

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

Supplier Information			
Company Name * Fairchild Semiconductor	Company Unique ID 00-489-5751	Unique ID Authority Dun & Bradstreet	Response Date* Sep 26, 2014 03:23 AM
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *
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David Lancaster	Product Ecology	801-562-7455	david.lancaster@fairchildsemi.com

Requester Item Num	ber Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type	
FSTD16211MTD	X FSTD16211MTI	OX TSSOP-56 (NiPdAu) (G).csv			FSPM	0.223028	g	Each	
Manufacturing Process Information									
Terminal Finish	Base Alloy	J-STD-020 MSL Rating	Peak Process Boo	ly Temperature	Max Time at F	eak Temperature	No Ret	low cycles	
Precious Metal	Copper Alloy	2	260	С	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 2011on 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

David Loneasto

Homogeneous Material Composition Declaration for Electronic Products

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

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	2.05	Supplier		Silicon	2.05	7440-21-3	9192
Die Attach	Other Organic Materials	0.254	Supplier		Phenolic resin	0.064	54208-63-8	285
			Supplier		Silver	0.191	7440-22-4	856
Encapsulation	Thermoplastics	126	Supplier		Carbon Black	1.259	1333-86-4	5645
			Supplier		Epoxy Resin	12.59	29690-82-2	56450
			Supplier		Silica, vitreous	112.051	60676-86-0	502409
Lead Frame	Copper & its alloys	85.3	Supplier		Copper	81.1	7440-50-8	363632
			Supplier		Magnesium	0.128	7439-95-4	574
			В	Nickel (external applications only)	Nickel	2.56	7440-02-0	11478
			Supplier		Silicon	0.554	7440-21-3	2484
			Supplier		Silver	0.938	7440-22-4	4206
Plating	Precious metals	8.15	Supplier		Gold	0.155	7440-57-5	695
			В	Nickel (external applications only)	Nickel	7.77	7440-02-0	34839
			Supplier		Palladium	0.228	7440-05-3	1022
Wire Bond	Precious metals	1.39	Supplier		Gold	1.39	7440-57-5	6232