

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/IPC-175x>

Form Type*
Distribute

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

Supplier Information

Company Name * Fairchild Semiconductor	Company Unique ID 00-489-5751	Unique ID Authority Dun & Bradstreet	Response Date* Sat, May 19, 2012 03:03 AM
Contact Name * David Lancaster	Title - Contact Product Ecology	Phone - Contact * 801-562-7455	Email - Contact * david.lancaster@fairchildsemi.com
Authorized Representative * David Lancaster	Title - Representative Product Ecology	Phone - Representative * 801-562-7455	Email - Representative * david.lancaster@fairchildsemi.com

Requester Item Number	Mf Item Number	Mf Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
FDMS8848NZ	FDMS8848NZ	8-PQFN 5X6			INTERNAL CEBU	0.095	g	Each

Manufacturing Process Information

Terminal Finish	Base Alloy	J-STD-020 MSL Rating	Peak Process Body Temperature	Max Time at Peak Temperature	No Reflow cycles
Nickel/Palladium/Gold (Ni/Pd/Au)	CU Alloy	1	260 C	30 seconds	3

* Required Field

RoHS Material Composition Declaration	Declaration Type * Custom
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RoHS Directive 2002/95/EC	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
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Providing for limitations below, we certify that the Fairchild Semiconductor product(s) list in this document are compliant to directive 2002/95/EC of the European Parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS directive). Specifically, this product(s) does not contain the substances in the RoHS definition above in concentrations greater than the maximum limit value(a).

Fairchild has implemented procedures to ensure our products and the materials in our products conform to regulatory requirements worldwide. Fairchild Semiconductor certifies that the information provided in this document is correct as of the date indicated on this document. However, not all materials in Fairchild's products may have been independently verified or tested with regard to 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.

(a) Maximum limit does not apply to applications for which exemptions have been granted by the RoHS directive. Fairchild product may utilize exemption 5 and 7a.

RoHS Declaration *	4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions	Supplier Acceptance * Accepted
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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
 7a. Lead in high melting temperature type solders (i.e. lead based solder alloys containing 85 % by weight or more lead).

Declaration Signature

Supplier Signature	 DAVID LANCASTER - PRODUCT ECOLOGY MANAGER
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Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name 8-PQFN 5X6

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	5.090	Supplier		Silicon	5.090	7440-21-3	53632
Die Attach	Other Nonferrous metals & alloys	6.940	A	Lead/Lead Compounds	Lead	6.420	7439-92-1	67646
			Supplier		Silver	0.174	7440-22-4	1833
			Supplier		Tin	0.347	7440-31-5	3656
Encapsulation	Thermoplastics	44.370	Supplier		Carbon Black	0.444	1333-86-4	4675
			Supplier		Epoxy Resin	2.219	29690-82-2	23376
			Supplier		Magnesium hydroxide	2.219	1309-42-8	23376
			Supplier		Phenolic Resin	1.331	9003-35-4	14026
			Supplier		Silica, vitreous	38.158	60676-86-0	402066
Lead Frame	Other Ferrous alloys, non-stainless steels	35.444	Supplier		Copper	34.500	7440-50-8	363520
			Supplier		Iron	0.850	7439-89-6	8956
			Supplier		Silver (G&S dap plating)	0.038	7440-22-4	404
			Supplier		Silver (Gate dap plating)	0.010	7440-22-4	105
			Supplier		Zinc	0.046	7440-66-6	485
Terminal Finish	Precious metals	0.350	Supplier		Gold	0.004	7440-57-5	37
			B	Nickel (external applications only)	Nickel	0.315	7440-02-0	3319
			Supplier		Palladium	0.032	7440-05-3	332
Wire Bond	Aluminum & its alloys	2.710	Supplier		Aluminum	2.710	7429-90-5	28555