

## 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

<b>Company Name *</b> Fairchild Semiconductor	Company Unique ID 00-489-5751	Unique ID Authority Dun & Bradstreet	<b>Response Date*</b> Sat, May 19, 2012 03:02 AM
<b>Contact Name *</b> David Lancaster	Title - Contact Product Ecology	<b>Phone - Contact *</b> 801-562-7455	<b>Email - Contact *</b> david.lancaster@fairchildsemi.com
<b>Authorized Representative *</b> David Lancaster	Title - Representative Product Ecology	<b>Phone - Representative *</b> 801-562-7455	Email - Representative * david.lancaster@fairchildsemi.com

Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
FDMS8460	FDMS8460	PQFN-8 5x6 (TFSn) Power 56			INTERNAL CEBU	0.108	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
Matte Tin (Sn)	CU Alloy	1	260 C	30 seconds	3

\* Required Field

<b>RoHS Material Composition Declaration</b>	<b>Declaration Type * Custom</b>
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<b>RoHS Directive 2002/95/EC</b>	<b>RoHS Definition:</b> 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.

<b>RoHS Declaration *</b>	<b>4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions</b>	<b>Supplier Acceptance * Accepted</b>
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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 PQFN-8 5x6 (TFSn) Power 56

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	47206
Die Attach	Other Nonferrous metals & alloys	6.940	A	Lead/Lead Compounds	Lead	6.420	7439-92-1	59536
			Supplier		Silver	0.174	7440-22-4	1609
			Supplier		Tin	0.347	7440-31-5	3218
Encapsulation	Thermoplastics	44.392	Supplier		Carbon black	0.222	1333-86-4	2059
			Supplier		Epoxy Resin	2.220	29690-82-2	20589
			Supplier		Metal Hydroxide - Generic CAS#	2.220	G0007	20589
			Supplier		Phenolic Resin	1.330	9003-35-4	12335
			Supplier		Silica, vitreous	38.400	60676-86-0	356133
Lead Frame	Precious metals	36.126	Supplier		Copper	34.500	7440-50-8	319963
			Supplier		Gold	0.010	7440-57-5	96
			Supplier		Iron	0.867	7439-89-6	8041
			B	Nickel (external applications only)	Nickel	0.637	7440-02-0	5908
			Supplier		Palladium	0.064	7440-05-3	597
			Supplier		Zinc	0.047	7440-66-6	435
Plating	Other Nonferrous metals & alloys	13.500	Supplier		Tin	13.500	7440-31-5	125203
Wire Bond	Copper & its alloys	1.777	Supplier		Aluminum	1.750	7429-90-5	16230
			Supplier		Copper	0.027	7440-50-8	252