

## 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	<b>Company Unique ID</b> 00-489-5751	<b>Unique ID Authority</b> Dun & Bradstreet	<b>Response Date*</b> Sat, Aug 31, 2013 02:14 AM
<b>Contact Name *</b> David Lancaster	<b>Title - Contact</b> Product Ecology	<b>Phone - Contact *</b> 801-562-7455	<b>Email - Contact *</b> david.lancaster@fairchildsemi.com
<b>Authorized Representative *</b> David Lancaster	<b>Title - Representative</b> Product Ecology	<b>Phone - Representative *</b> 801-562-7455	<b>Email - Representative *</b> david.lancaster@fairchildsemi.com

Requester Item Number	Mfr Item Number	Mfr Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
FAN23SV06MPX	FAN23SV06MPX	Power 55 (PQFN-34) 5.5x5.0 (G)			INTERNAL CEBU	0.081787	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

RoHS Material Composition Declaration		Declaration Type * Custom
<b>RoHS Directive</b> 2011/65/EU	<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	
<p>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.</p> <p>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.</p> <p>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.</p>		
<b>RoHS Declaration *</b>	<b>1 - Item(s) does not contain RoHS restricted substances per the definition above</b>	<b>Supplier Acceptance * Accepted</b>
<p><b>Exemptions:</b> 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.</p>		
<p>Exemption List Version EL-2011/534/EU None</p>		

#### Declaration Signature

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

Item/SubItem Name Power 55 (PQFN-34) 5.5x5.0 (G)

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Silicon	1.140	Supplier		Silicon	1.140	7440-21-3	13939
Encapsulation	Epoxy	46.600	Supplier		Carbon black	0.466	1333-86-4	5698
			Supplier		Epoxy Resin	4.194	85954-11-6	51280
			Supplier		Phenol Resin	0.932	26834-02-6	11395
			Supplier		Silica, vitreous	41.008	60676-86-0	501400
Lead Frame	Metal Alloy	30.983	Supplier		Copper	29.917	7440-50-8	365794
			Supplier		Iron	0.744	7439-89-6	9092
			Supplier		Silver	0.282	7440-22-4	3447
			Supplier		Zinc	0.040	7440-66-6	492
Plating	Plating	1.780	Supplier		Tin	1.780	7440-31-5	21764
Wire Bond Au	Precious metals	0.684	Supplier		Gold	0.684	7440-57-5	8363
Wire Bond Cu	Copper & its alloys	0.600	Supplier		Copper	0.600	7440-50-8	7336