

ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®

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 Infomation

Supplier Information								
Company Name *	Company Unique ID	Unique ID Authority	Response Date*					
Fairchild Semiconductor	00-489-5751	Dun & Bradstreet	Sat, Aug 31, 2013 03:11 AM					
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *					
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Authorized Representative *	Title - Representative	Phone - Representative *	Email - Representative *					
David Lancaster	Product Ecology	801-562-7455	david.lancaster@fairchildsemi.com					

Requester Item Number	Mfr Ite	Mfr Item Number Mfr Item Name			Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type
FSBB20CH60F	FSBB2	20CH60F	SPM27-CA				INTERNAL SUZHOU		17.342394	g	Each
Manufacturing Process Information											
Terminal Finish	Base Alloy	J-STD-020 MSL Rating			Peak Process Body Temperature		Max Time at Peak Temperature		No Ret	No Reflow cycles	
Matte Tin (Sn)	CU Alloy	Not A	Not Applicable		С		seconds		Not A	Not Applicable	

^{*} 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 *

4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions | 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

7(a)-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 SPM27-CA

Component	Material	Weight (mg)	Jig Level	Substance Category Substance		Weight (mg)	CAS	PPM
Chip	Other inorganic materials	67.700 Supplier			Silicon	67.700	7440-21-3	3904
Die Attach Epoxy	Other Organic Materials	0.495	Supplier		Acrylic Resin	0.074	54208-63-8	4
			Supplier		Silver	0.421	7440-22-4	24
Die Attach Soft Solder	Other Nonferrous metals & alloys	31.399	Supplier		Copper	0.157	7440-50-8	9
			Supplier		Silver	0.942	7440-22-4	54
			Supplier		Tin	30.300	7440-31-5	1747
Die Attach Solder	Other Nonferrous metals & alloys	9.700	A	Lead/Lead Compounds	Lead	8.973	7439-92-1	517
			Supplier		Silver	0.243	7440-22-4	14
			Supplier		Tin	0.485	7440-31-5	28
Encapsulation	Thermoplastics	10122.000	В	Antimony/Antimony Compounds	Antimony Trioxide	101.000	1309-64-4	5824
			В	Brominated Flame Retardants (other than PBCs or PBDEs)	Bromine Resin	101.000	6386-73-8	5824
			Supplier		Carbon Black	101.220	1333-86-4	5837
			Supplier		Epoxy Resin	1010.000	29690-82-2	58239
			Supplier		Silica, vitreous	8808.780	60676-86-0	507933
Heat Sink	Ceramics / Glass	2720.000	Supplier		Aluminum Oxide	980.016	1344-28-1	56510
			Supplier		Copper	1739.984	7440-50-8	100331
Lead Frame	Copper & its alloys	4318.380	Supplier		Copper	4310.000	7440-50-8	248524
			Supplier		Iron	5.180	7439-89-6	299
			Supplier		Phosphorus	1.730	7723-14-0	100
			Supplier		Silver	1.470	7440-22-4	85
Plating	Other Nonferrous metals & alloys	53.300	Supplier		Tin	53.300	7440-31-5	3073
Wire Bond - Al	Aluminum & its alloys	18.300	Supplier		Aluminum	18.300	7429-90-5	1055
Wire Bond - Au	Precious metals	1.120	Supplier		Gold	1.120	7440-57-5	65