

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 03:22 AM
Contact Name *	Title - Contact	Phone - Contact *	Email - Contact *
David Lancaster	Product Ecology	801-562-7455	david.lancaster@fairchildsemi.com
Authorized Representative *	Title - Representative	Phone - Representative *	Email - Representative *
David Lancaster	Product Ecology	801-562-7455	david.lancaster@fairchildsemi.com

Requester Item Number	Mfr I	em Number	Mfr Item Name		Effective Date	Version		Manufacturing Site	Weight*	UOM	Unit Type
HGTG5N120BNI	HGTG:	HGTG5N120BND		O-247-3			INTI	ERNAL SUZHOU	5.456725	g	Each
Manufacturing Process Information											
Terminal Finish	Base Alloy	J-STD-02	J-STD-020 MSL Rating		Peak Process Body Temperature		Max Time at Peak Temperature		No Reflow cycles		
Matte Tin (Sn)	CU Alloy	Not A	pplicable	С			seco		seconds N		pplicable

<sup>\*</sup> 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 TO-247-3

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	32.000	Supplier		Silicon	32.000	7440-21-3	5864
Die Attach	Other Nonferrous metals & alloys	35.000	A	Lead/Lead Compounds	Lead	32.400	7439-92-1	5938
			Supplier		Silver	0.875	7440-22-4	160
			Supplier		Tin	1.750	7440-31-5	321
Encapsulation	Thermoplastics	1740.000	В	Antimony/Antimony Compounds	Antimony Trioxide	34.900	1309-64-4	6396
			В	Brominated Flame Retardants (other than PBCs or PBDEs)	Bromine Resin	20.900	6386-73-8	3830
			Supplier		Carbon Black	17.400	1333-86-4	3189
			Supplier		Epoxy Resin	284.000	29690-82-2	52046
			Supplier		Silica, vitreous	1382.600	60676-86-0	253375
Lead Frame	Copper & its alloys	3610.000	Supplier		Copper	3490.000	7440-50-8	639578
			Supplier		Iron	2.100	7439-89-6	385
			В	Nickel (external applications only)	Nickel	118.000	7440-02-0	21625
			Supplier		Phosphorus	1.050	7723-14-0	192
			Supplier		Zinc	1.750	7440-66-6	321
Plating	Other Nonferrous metals & alloys	31.000	Supplier		Tin	31.000	7440-31-5	5681
Wire Bond	Aluminum & its alloys	6.000	Supplier		Aluminum	6.000	7429-90-5	1100