

ASSOCIATION CONNECTING ELECTRONICS INDUSTRIES®

Material Composition Declaration
© Copyright 2005. IPC, Bannockburn, Illinois. All rights reserved under both international and Pan-American copyright conventions.

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 02:48 AM
Contact Name *			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	tem Number	ber Mfr Item Name		Effective Date	Version	Manufacturing Site		Weight*	UOM	Unit Type
FGA20N120FTDT	U FGA201	N120FTDTU	TO-3P-3				INTI	ERNAL SUZHOU	5.434650	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		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

Tand Loneasto

Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name TO-3P-3

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	41.800	Supplier		Silicon	41.800	7440-21-3	7691
Die Attach	Other Nonferrous metals & alloys	1.840	A	Lead/Lead Compounds	Lead	1.720	7439-92-1	317
			Supplier		Silver	0.028	7440-22-4	5
			Supplier		Tin	0.092	7440-31-5	17
Encapsulation	Thermoplastics	1736.800	В	Antimony/Antimony Compounds	Antimony Trioxide	43.500	1309-64-4	8004
			В	Brominated Flame Retardants (other than PBCs or PBDEs)	Bromine Resin	52.200	6386-73-8	9605
			Supplier		Carbon Black	13.100	1333-86-4	2410
			Supplier		Epoxy Resin	348.000	29690-82-2	64034
			Supplier		Silica, vitreous	1280.000	60676-86-0	235526
Lead Frame	Copper & its alloys	3624.710	Supplier		Copper	3620.000	7440-50-8	666096
			Supplier		Phosphorus	1.090	7723-14-0	201
			Supplier		Tin	3.620	7440-31-5	666
Plating	Other Nonferrous metals & alloys	26.500	Supplier		Tin	26.500	7440-31-5	4876
Wire Bond	Aluminum & its alloys	3.000	Supplier		Aluminum	3.000	7429-90-5	552