

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	- 1	Response Date*					
Fairchild Semiconductor	00-489-5751	Dun & Bradstreet	Sat, Aug 31, 2013 03:09 AM					
Contact Name *	Title - 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 Item Number		Mfr Item Name		Effective Date		Manufacturing Site		Weight*	UOM		Unit Type
FSA831L10X	FSA831L10X M		croPAK-10 (1.6x2.1) G				INTERNAL PENANG		0.007541	g		Each
Manufacturing Process Information												
Terminal Finis	Terminal Finish Ba		J-STD-020 MSL Rating		Peak Process Body Temperature		Max Time at Peak Temperature		ıre	No Reflow cycles		
Nickel/Palladium/Gold (Ni/Pd/Au)		Other	1		260 C		30 seconds			3		

^{*} 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 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.

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 *

1 - Item(s) does not contain RoHS restricted substances per the definition above

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

None

Declaration Signature

Supplier Signature

DAVID LANCASTER - PRODUCT ECOLOGY MANAGER

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Homogeneous Material Composition Declaration for Electronic Products

Item/SubItem Name MicroPAK-10 (1.6x2.1) G

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
Chip	Other inorganic materials	0.599	Supplier		Silicon	0.599	7440-21-3	79432
Die Attach	Other Organic Materials	0.140	Supplier		Acrylic Resin	0.070	54208-63-8	9283
			Supplier		Epoxy Resin	0.070	29690-82-2	9283
Encapsulation	Thermoplastics	4.450	Supplier		Carbon Black	0.133	1333-86-4	17703
			Supplier		Epoxy Resin	0.890	29690-82-2	118021
			Supplier		Phenolic Resin	0.223	9003-35-4	29505
			Supplier		Silica, vitreous	3.204	60676-86-0	424877
Lead Frame	Copper & its alloys	2.230	Supplier		Copper	2.172	7440-50-8	287999
			Supplier		Iron	0.054	7439-89-6	7097
			Supplier		Phosphorus	0.002	7723-14-0	266
			Supplier		Zinc	0.003	7440-66-6	355
Terminal Finish	Precious metals	0.042	Supplier		Gold	0.001	7440-57-5	81
			В	Nickel (external applications only)	Nickel	0.038	7440-02-0	4984
			Supplier		Palladium	0.004	7440-05-3	504
Wire Bond	Precious metals	0.080	Supplier		Gold	0.080	7440-57-5	10609