

## 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	Company Unique ID 00-489-5751	Unique ID Authority Dun & Bradstreet	<b>Response Date*</b> Sat, May 19, 2012 02:25 AM
<b>Contact Name *</b> David Lancaster	Title - Contact Product Ecology	<b>Phone - Contact *</b> 801-562-7455	<b>Email - Contact *</b> david.lancaster@fairchildsemi.com
<b>Authorized Representative *</b> David Lancaster	Title - Representative Product Ecology	<b>Phone - Representative *</b> 801-562-7455	Email - Representative * david.lancaster@fairchildsemi.com

Requester Item Number	Mf Item Number	Mf Item Name	Effective Date	Version	Manufacturing Site	Weight*	UOM	Unit Type
BZX85C12	BZX85C12	DO-41 (Glass)			SUBCONTRACTOR	0.324	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)	Other	Not Applicable	C	seconds	Not Applicable

\* Required Field

<b>RoHS Material Composition Declaration</b>	<b>Declaration Type * Custom</b>
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<b>RoHS Directive 2002/95/EC</b>	<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
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Providing for limitations below, we certify that the Fairchild Semiconductor product(s) list in this document are compliant to directive 2002/95/EC of the European Parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS directive). Specifically, this product(s) does not contain the substances in the RoHS definition above in concentrations greater than the maximum limit value(a).

Fairchild has implemented procedures to ensure our products and the materials in our products conform to regulatory requirements worldwide. Fairchild Semiconductor certifies that the information provided in this document is correct as of the date indicated on this document. However, not all materials in Fairchild's products may have been independently verified or tested with regard to 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.

(a) Maximum limit does not apply to applications for which exemptions have been granted by the RoHS directive. Fairchild product may utilize exemption 5 and 7a.

<b>RoHS Declaration *</b>	<b>4 - Item(s) does not contain RoHS restricted substances per the definition above except for selected exemptions</b>	<b>Supplier Acceptance * Accepted</b>
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**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-2006/690/EC  
 5. Lead in glass of cathode ray tubes, electronic components and fluorescent tubes.

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

Item/SubItem Name DO-41 (Glass)

Component	Material	Weight (mg)	Jig Level	Substance Category	Substance	Weight (mg)	CAS	PPM
CSS Wire	Other Ferrous alloys, non-stainless steels	202.000	Supplier		Carbon	1.010	7440-44-0	3116
			Supplier		Copper	70.700	7440-50-8	218085
			Supplier		Iron	130.000	7439-89-6	401005
			Supplier		Manganese	0.404	7439-96-5	1246
			Supplier		Phosphorus	0.101	7723-14-0	312
			Supplier		Sulfur	0.101	7704-34-9	312
Chip	Other inorganic materials	0.093	Supplier		Silicon	0.093	7440-21-3	285
Dumet Wire	Other Ferrous alloys, non-stainless steels	57.900	Supplier		Cobalt	0.290	7440-48-4	895
			Supplier		Iron	32.700	7439-89-6	100868
			Supplier		Manganese	0.463	7439-96-5	1428
			B	Nickel (external applications only)	Nickel	24.300	7440-02-0	74957
			Supplier		Silicon	0.174	7440-21-3	537
Encapsulation	Ceramics / Glass	60.400	Supplier		Diboron Trioxide	1.510	1303-86-2	4658
			A	Lead/Lead Compounds	Lead (II,IV) oxide	36.500	1314-41-6	112590
			Supplier		Potassium Oxide	2.420	12136-45-7	7465
			Supplier		Silicon Dioxide	19.900	14808-60-7	61385
Plating	Other Nonferrous metals & alloys	3.520	Supplier		Tin	3.520	7440-31-5	10858