



S I L I C O N   L A B S

Product Environmental  
Database

09Q2

## Self-Serve Part Substance Data and Declarations

Go to [www.silabs.com/quality](http://www.silabs.com/quality)

After website registration, authorized registrants can access:

1. RoHS, Halogen-free, PFOS/PFOA-free, and REACH results and Certificates of Compliance
2. Downloadable Material Declaration Data Sheets (Acrobat or IPC-1752 XML format)
3. Downloadable Homogenous Materials test results



# www.silabs.com Homepage

1. Go to [www.silabs.com](http://www.silabs.com)
2. Under *Support*, click on *Quality & Environmental*

The screenshot shows the Silicon Labs website homepage. At the top, there is a navigation bar with links for "Products", "Applications", "Support", and "Buy or Sample". A "Keyword Search" and "Full Part Number Search" box is also present. The main content area features a "Welcome to Silicon Labs" banner with five product highlights: C8051T606 MCU, Si84xx ISOpro Isolators, EZRadioPRO™, Si57x, and CP210x. A "Cap Touch Tutorial" sidebar is visible on the right. Below the banner is a navigation menu with five categories: "Get More From This Site", "Products", "Applications", "Support", and "Buy or Sample". The "Support" category is expanded, showing a list of sub-links, with "Quality & Environmental" circled in green. A green arrow points to this link.

Navigation links: Products, Applications, Support, Buy or Sample

Search: Keyword Search, Full Part Number Search

Welcome to Silicon Labs

Product highlights:

- C8051T606 MCU**: High Performance in 2x2 mm<sup>2</sup>
- Si84xx ISOpro Isolators**: Highly-Integrated One-to-Six-Channel Isolators
- EZRadioPRO™**: Complete, TX, RX, TRX Family
- Si57x**: High-Frequency, Low Jitter VCXOs
- CP210x**: Single-Chip USB to UART Bridge

Cap Touch Tutorial: Add touch sense switches to your design; effective layout patterns

Navigation Menu:

- Get More From This Site
  - Update your profile
  - Currently logged in as: mcbrucke
  - Click [here](#) to log out or sign in as another user
- Products
  - Audio/Video
  - MCUs
  - Clocks and Oscillators
  - Isolation and Power
  - Modems and DAAs
  - Voice
  - Interface
  - Wireless
- Applications
  - Audio
  - Automotive
  - Broadcast
  - Communications & Telecom
  - Computing
  - Consumer Electronics
  - Industrial
  - Wireless
- Support
  - Knowledge Base
  - Document Library
  - Training & Resources
  - User Community Support
  - Forums
  - Customer Technical Support
  - Contact Sales Support
  - Quality & Environmental**
- Buy or Sample
  - Distributors
  - Sales Representatives
  - Worldwide Sales Offices

# Access the Database, Log On

Silicon Labs > Support > Quality & Environmental

**Support**

- + Overview
- + Knowledge Base
- + Document Library
- + Training & Resources
- + User Community Support Forums
- + Contact Technical Support
- + Contact Sales Support
- + **Quality & Environmental**

## Quality & Environmental

At Silicon Laboratories, world-class quality and environmental standards are a part of everything we do. Silicon Laboratories employs strict process controls and continual improvement to our quality and environmental management systems. As a fabless semiconductor company, we also expect the highest standards from our manufacturing partners, ensuring the delivery of highly reliable, mixed-signal solutions to our customers.

- [Silicon Laboratories' Quality and Environmental Policies](#)
- [Environmental Data \(RoHS, Pb-Free, etc.\) Part Number Search](#)
- [ISO Standards Registration](#)
- [Quality and Reliability Monitor Report](#)
- [Green/Eco-Partner Certification](#)

[Back to Top](#)

### Quality Policy

Silicon Laboratories will accomplish Total Customer Satisfaction by:

- Providing excellent products, support and service
- Exceeding customer needs and requirements
- Meeting the requirements of and

### Environmental Policy

At Silicon Laboratories we manage environmental matters as an integral part of our business by our commitment to:

- Continually improve our environmental performance and pollution prevention,
- Complying with applicable legal and other requirements that relate to our environmental aspects, and

### ISO Certificates

- ISO 9001
- ISO 14001
- ISO/TS 16949

### Environmental Data Part Number Search

### Quality and Reliability Report

- Report (PDF)

### Contact Sales

- Distributors
- Sales Representatives

### Contact Technical Support

Choose a Product Gro

# Search for Part # Specific Data

Enter full or partial part number

Silicon Labs > Support > Quality & Environmental > RoHS Information

**Quality & Environmental**  
+ Overview

### Environmental Data Part Number Search

The environmental data part number search provides detailed device composition and test results for Silicon Labs part numbers. You can also download the following documents for each part number:

- Detailed Device Composition (MDDS Data)
- IPC 1752-1 (XML format)
- RoHS Certificate of Compliance
- Halogen-Free Certificate of Compliance
- PFOS Certificate of Compliance
- REACH Declaration

Part Number (full or partial):

**Quality**  
→ Quality Standards  
→ RoHS Certificate of Compliance  
→ Environmental Data Part Number Search

# Part # Snapshot


1. Review the part specific overview
2. If more data is needed, click on the P/N link

## Environmental Data Part Number Search


Click on a part number below to view detailed device composition and test results, or to download the following documents for that part number:

- Detailed Device Composition (MDDS Data)
- IPC 1752-1 (XML format)
- RoHS Certificate of Compliance
- Halogen-Free Certificate of Compliance
- PFOS Certificate of Compliance
- REACH Declaration

Search for part number **4705** returned **6** results.



Part Number	Asm Site	RoHS Compliant	Halogen Free	PFOS/PFOA Free	REACH Compliant
<a href="#">SI4705-B20-GM</a>		✓	✓	✓	✓
<a href="#">SI4705-B20-GM</a>	K	✓	✓	✓	✓
<a href="#">SI4705-B20-GM</a>	K	✓	✓	✓	✓
<a href="#">SI4705-B20-GMR</a>	F	✓	✓	✓	✓
<a href="#">SI4705-B20-GMR</a>	K	✓	✓	✓	✓
<a href="#">SI4705-B20-GMR</a>	K	✓	✓	✓	✓



# MDDS, Certs, Homogenous Mat'l Tests

## Environmental Data Part Number Search

Date: June 22, 2009      RoHS Compliant: Yes  
 Device: SI4705-B20-GM      Halogen-Free: Yes  
 Package: 20-UQFN-3X3-LF      PFOS/PFOA Free: Yes  
 Asm Site: F      REACH Compliant: Yes

View the detailed package data (MDDS)  
*(top half of page)*

## Detailed Device Composition

No.	Homogeneous Material	Material Weight (mg)	Material Content	CAS Number	Material Weight (%)	Material Weight (mg)	ppm of Material	Wt % of Total Unit	ppm of Total Unit
1	Leadframe	7.67	Copper	7440-50-8	97.500	7.478	975000	44.5399	445399
			Iron	7439-89-6	2.350	0.180	23500	1.0735	10735
			Phosphorous	7723-14-0	0.120	0.009	1200	0.0548	548
			Zinc	7440-66-6	0.030	0.002	300	0.0137	137
2	Plating - Internal	0.15	Silver	7440-22-4	100.000	0.150	1000000	0.8934	8934
3	Die	1.00	Silicon	7440-21-3	99.800	0.998	998000	5.9440	59440
			Silicon Dioxide	60676-86-0	0.200	0.002	2000	0.0119	119
4	Die Attach Epoxy	0.13	Epoxy Resin (Proprietary)	Proprietary	20.000	0.026	200000	0.1549	1549
			Silver	7440-22-4	74.000	0.096	740000	0.5730	5730
			Gamma Butyrolactone	96-48-0	2.000	0.003	20000	0.0155	155
			Metal Oxide	Proprietary	2.000	0.003	20000	0.0155	155
			Curing Agent	Proprietary	2.000	0.003	20000	0.0155	155
5	Bond Wire	0.17	Gold	7440-57-5	100.000	0.170	1000000	1.0125	10125
6	Plating - External	0.33	Tin	7440-31-5	100.000	0.330	1000000	1.9655	19655
7	Mold Compound	7.34	Carbon Black	1333-86-4	0.300	0.022	3000	0.1311	1311
			Epoxy Resin (Proprietary)	Proprietary	4.850	0.356	48500	2.1203	21203
			Phenol Resin (Proprietary)	Proprietary	4.850	0.356	48500	2.1203	21203
			Silicon Dioxide	60676-86-0	90.000	6.606	900000	39.3448	393448
Total Unit Weight =		16.79				16.79		100.000	1000000

More data available by scrolling to bottom of page

# MDDS, Certs, Homogenous Mat'l Tests (cont.)

1. View pdf versions of MDDS, RoHS cert, Halogen-free cert, PFOS-free cert, REACH declaration; XML version of MDDS
2. Click on Report Number links to view test reports of homogenous materials

## Download Reports:

- Detailed Device Compo
- IPC 1752-1 (XML format)
- RoHS Certificate of Compliance
- Halogen-Free Certificate of Compliance
- PFOS Certificate of Compliance
- REACH Declaration

View snapshot of test results

## Test Results:

No.	Homogeneous Material	Report Number	Report Date	Pb	Hg	Cr+6	Cd	PBBs	PBDEs	Br	Cl	Sb	PFOS	PFOA
1	Leadframe	<a href="#">LPCI/08544/08</a>	4/25/2008	ND	ND	ND	ND	ND	ND	-	-	-	-	-
2	Plating - Internal	<a href="#">JP/2008/100924</a>	10/24/2008	ND	ND	ND	ND	ND	ND	-	-	-	-	-
3	Die	<a href="#">CE/2009/11310A</a>	1/12/2009	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	Die Attach Epoxy	<a href="#">CE/2008/C0185</a>	12/8/2008	ND	ND	ND	ND	ND	ND	-	-	-	-	-
5	Bond Wire	<a href="#">KA/2008/C1794A-04</a>	1/5/2009	ND	ND	ND	ND	ND	ND	-	-	-	-	-
6	Plating - External	<a href="#">LPCI/05841/09</a>	4/8/2009	30.0	ND	ND	ND	ND	ND	-	-	-	-	-
7	Mold Compound	<a href="#">10144851/08 (9) R1</a>	1/5/2009	ND	ND	ND	ND	ND	ND	-	-	-	-	-

ND = Not Detected  
- = Not Tested

This database provides the most frequently requested data, certs and reports. If you cannot find what you need, contact your Silicon Labs Customer Service Representative.