



**Product Content Sheet**

Package family	QLPp	Picture of typical product, optional
Date	28/Sep/2006	
Version	RoHS	

Composition part	Material group	Materials	CAS if applicable	Average mass [weight-%] *)	Sum [%]	Traces
Chip	Silicon and inorganic compounds	Si	7440-21-3	100	1.135162	
Wires	Nobel Metal	Gold	7440-57-5	99.99	0.138495	-
Leadframe	Alloy	Copper	7440-50-8	96.6602	49.528051	-
		Iron	7439-89-6	2.1697	1.111740	-
		Phosphorus	7723-14-0	0.0724	0.037097	-
		Zinc	7440-66-6	0.1116	0.057183	-
		Lead	7439-92-1	0.0129	0.006610	-
		Silver	7440-22-4	0.9732	0.498661	
Mold compound	Silica and thermoset epoxy resin	Si fused	60676-86-0	86.91	37.433756	-
		Epoxy & Phenol resin	Confidential	12.78	5.504584	-
		Carbon Black	1333-86-4	0.31	0.133523	-
DA Epoxy	Epoxy	Silver	7440-22-4	75	0.882904	-
		Epoxy Resin	Confidential	10	0.117721	-
		Gamma Butyrolactone	96-48-0	5	0.058860	-
		Amine	Confidential	5	0.058860	
		Metal Oxide	Confidential	5	0.058860	
Leadfinish	Metal Alloy	Sn	7440-31-5	100	3.237933	
Marking	Laser	Laser	-	-	-	
Sum in total:					100	-

Weight range	0.161739g
Fluctuation margin	-

or:

Case sizes\*\*) and weight range

-
---

\*) related to package weight; weight in particular, see corresponding *package weight list*

\*\*) optional

Not part of package family	
----------------------------	--

Company	Texas Instruments Norway	<b>Important remarks:</b> 1) Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight. Higher limits are accepted if the substance or material is legally regulated (see note no. 2). 2) A list of the (legal) "... restrictions on substances ..." or materials is available at internet address: <a href="http://www.eicta.org/Content/Default.asp?PageID=113">http://www.eicta.org/Content/Default.asp?PageID=113</a> .
Address	Gaustadalleen 21, 0349 Oslo, Norway	
Support	<a href="http://www-k.ext.ti.com/sc/technical-support/pic/euro.htm">http://www-k.ext.ti.com/sc/technical-support/pic/euro.htm</a>	
Internet	<a href="http://www.ti.com">www.ti.com</a>	

- 3) Substances, materials etc. with possible harmful effects on human beings and the environment are listed.
- 4) There are no risks for human beings and to the environment if products are properly used as designated.  
This shall not apply to risks caused during procedures for disposal etc.
- 5) All statements herein are based on our present knowledge. If our products are used properly, there are no risks to human beings and/or the environment.



### Package Weight List

(Single weights of Products, materials data see Product Content Sheet on previous page)

Package family	QLPp
Date	28/Sep/2006
Version	RoHS

Uspec short*)	Package family*)	Package	Internal package code	Pin count	Weight [grams]	Remark
		4x4x0.85 QLPp	QLPp 20	20	0.161739 g	Device: CC1100

\*) USpec short name and Package family are optional, e.g. for summary of several package weight lists

Company	Texas Instruments Norway
Address	Gaustadalleen 21, 0349 Oslo, Norway
Support	<a href="http://www-k.ext.ti.com/sc/technical-support/pic/euro.htm">http://www-k.ext.ti.com/sc/technical-support/pic/euro.htm</a>
Internet	<a href="http://www.ti.com">www.ti.com</a>

## IMPORTANT NOTICE

Texas Instruments Incorporated and its subsidiaries (TI) reserve the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its hardware products to the specifications applicable at the time of sale in accordance with TI's standard warranty. Testing and other quality control techniques are used to the extent TI deems necessary to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

TI assumes no liability for applications assistance or customer product design. Customers are responsible for their products and applications using TI components. To minimize the risks associated with customer products and applications, customers should provide adequate design and operating safeguards.

TI does not warrant or represent that any license, either express or implied, is granted under any TI patent right, copyright, mask work right, or other TI intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license from TI to use such products or services or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

Reproduction of TI information in TI data books or data sheets is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. Reproduction of this information with alteration is an unfair and deceptive business practice. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Resale of TI products or services with statements different from or beyond the parameters stated by TI for that product or service voids all express and any implied warranties for the associated TI product or service and is an unfair and deceptive business practice. TI is not responsible or liable for any such statements.

TI products are not authorized for use in safety-critical applications (such as life support) where a failure of the TI product would reasonably be expected to cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use. Buyers represent that they have all necessary expertise in the safety and regulatory ramifications of their applications, and acknowledge and agree that they are solely responsible for all legal, regulatory and safety-related requirements concerning their products and any use of TI products in such safety-critical applications, notwithstanding any applications-related information or support that may be provided by TI. Further, Buyers must fully indemnify TI and its representatives against any damages arising out of the use of TI products in such safety-critical applications.

TI products are neither designed nor intended for use in military/aerospace applications or environments unless the TI products are specifically designated by TI as military-grade or "enhanced plastic." Only products designated by TI as military-grade meet military specifications. Buyers acknowledge and agree that any such use of TI products which TI has not designated as military-grade is solely at the Buyer's risk, and that they are solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI products are neither designed nor intended for use in automotive applications or environments unless the specific TI products are designated by TI as compliant with ISO/TS 16949 requirements. Buyers acknowledge and agree that, if they use any non-designated products in automotive applications, TI will not be responsible for any failure to meet such requirements.

Following are URLs where you can obtain information on other Texas Instruments products and application solutions:

<b>Products</b>		<b>Applications</b>	
Amplifiers	<a href="http://amplifier.ti.com">amplifier.ti.com</a>	Audio	<a href="http://www.ti.com/audio">www.ti.com/audio</a>
Data Converters	<a href="http://dataconverter.ti.com">dataconverter.ti.com</a>	Automotive	<a href="http://www.ti.com/automotive">www.ti.com/automotive</a>
DSP	<a href="http://dsp.ti.com">dsp.ti.com</a>	Broadband	<a href="http://www.ti.com/broadband">www.ti.com/broadband</a>
Interface	<a href="http://interface.ti.com">interface.ti.com</a>	Digital Control	<a href="http://www.ti.com/digitalcontrol">www.ti.com/digitalcontrol</a>
Logic	<a href="http://logic.ti.com">logic.ti.com</a>	Military	<a href="http://www.ti.com/military">www.ti.com/military</a>
Power Mgmt	<a href="http://power.ti.com">power.ti.com</a>	Optical Networking	<a href="http://www.ti.com/opticalnetwork">www.ti.com/opticalnetwork</a>
Microcontrollers	<a href="http://microcontroller.ti.com">microcontroller.ti.com</a>	Security	<a href="http://www.ti.com/security">www.ti.com/security</a>
RFID	<a href="http://www.ti-rfid.com">www.ti-rfid.com</a>	Telephony	<a href="http://www.ti.com/telephony">www.ti.com/telephony</a>
Low Power Wireless	<a href="http://www.ti.com/lpw">www.ti.com/lpw</a>	Video & Imaging	<a href="http://www.ti.com/video">www.ti.com/video</a>
		Wireless	<a href="http://www.ti.com/wireless">www.ti.com/wireless</a>

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265  
Copyright © 2007, Texas Instruments Incorporated