imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



LC898212XC

CMOS LSI AF Controller

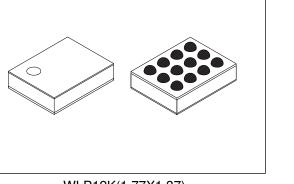


Overview

This LSI is AF control LSI. It consists of 1 system of feed back circuit for AF control.

Features

- Built-in equalizer circuit using digital operation
 - AF control equalize circuit
 - Any coefficient can be specified by $I^2C\ I/F$
- I²C Interface
- Built-in A/D converter
 - Maximum 10-bit
 - Input 2 channel
- Built-in D/A converter
 - 8-bit
 - Output 2-channel (Hall offset, Constant current Bias)
- Built-in OP Amp
 - 1 channel
 - Hall Amp
- Built-in OSC
 - 48MHz (Frequency adjustment function)
- Built-in PWM pulse generator circuit
 PWM circuit for AF control
- 1-chip motor driver
 - Saturation drive H bridge 1 channel
- Package
 - WL-CSP 12-pin
 - Lead-free, halogen-free
- Supply voltage
 - Logic unit : Internal core typ 1.2V, AVDD (2.6V to 3.6V)
 - Driver unit : VM (2.6V to 3.6V)



WLP12K(1.77X1.37)

* I²C Bus is a trademark of Philips Corporation.

ORDERING INFORMATION

See detailed ordering and shipping information on page 4 of this data sheet.

Pin Description

ТҮРЕ							
Ι	INPUT	Ρ	Power supply, GND	NC	NOT CONNECT		
0	OUTPUT						
В	BIDIRECTION						
∎ I ² C i	nterface I2CCK I2CDT	B B	I ² C Clock pin I ² C Data pin				
■D/A interface BIASO		Ο	D/A output (Ha	D/A output (Hall bias input)			
■Op-Amp interface							
OPINP		Ι	Op-Amp input				
	OPINM	Ι	Op-Amp input	Op-Amp input			
■Driver interface OUT1 OUT2		0 0	-	Actuator output pin Actuator output pin			
■Powe	er supply pin VDD VSS VDDO VM PGND	P P P P	Digital power s Digital GND LDO power su Motor power s Power GND	pply o	ut		

PIN TYPE "O" – Ensure that it is set to OPEN.

PIN TYPE "I" – OPEN is inhibited. Ensure that it is connected to the V_{DD} or V_{SS} even when it is unused.

(Please contact our company for more information about selection of V_{DD} or V_{SS} .)

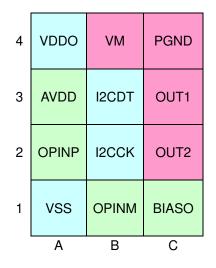
PIN TYPE "B" – If you are unsure about processing method on the pin description of pin layout table, please contact us.

Note that incorrect processing of unused pins may result in defects. If you have any question, please feel free to contact us.

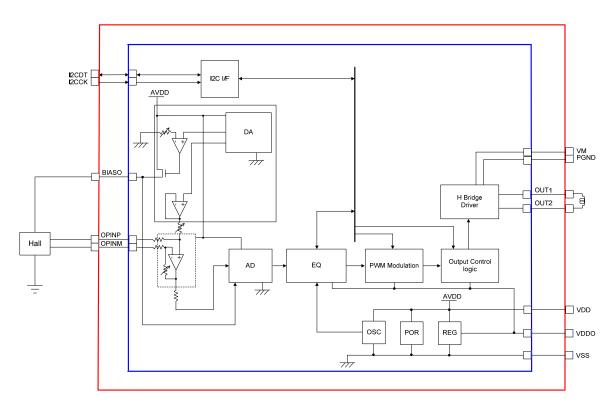
Pin Layout

Circuit Name	Number of Pins	Circuit Name	Number of Pins
Analog	4	Driver	4
Logic	4		

Backside pin layout diagram (Top View from the mold side)



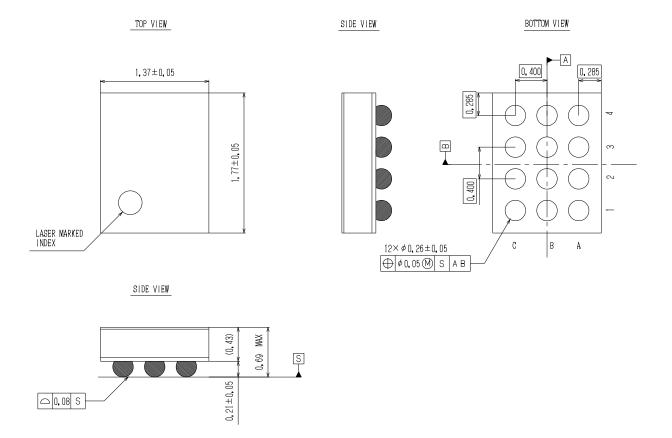
Block Diagram



Package Dimensions

WLP12K(1.77X1.37)

unit : mm



ORDERING INFORMATION

Device	Package	Shipping (Qty / Packing)
LC898212XC-MH	WLP12K(1.77X1.37) (Pb-Free / Halogen Free)	5000 / Tape & Reel

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