

Pin Description

| TYPE | | | | | |
|------|-------------|---|----------------------|----|-------------|
| I | INPUT | P | Power supply, GND | NC | NOT CONNECT |
| O | OUTPUT | | | | |
| B | BIDIRECTION | | | | |

■ I²C interface

| | | |
|-------|---|----------------------------|
| I2CCK | B | I ² C Clock pin |
| I2CDT | B | I ² C Data pin |

■ D/A interface

| | | |
|-------|---|------------------------------|
| BIASO | O | D/A output (Hall bias input) |
|-------|---|------------------------------|

■ Op-Amp interface

| | | |
|-------|---|--------------|
| OPINP | I | Op-Amp input |
| OPINM | I | Op-Amp input |

■ Driver interface

| | | |
|------|---|---------------------|
| OUT1 | O | Actuator output pin |
| OUT2 | O | Actuator output pin |

■ Power supply pin

| | | |
|------|---|----------------------|
| VDD | P | Digital power supply |
| VSS | P | Digital GND |
| VDDO | P | LDO power supply out |
| VM | P | Motor power supply |
| PGND | P | Power GND |

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

PIN TYPE “I” – OPEN is inhibited. Ensure that it is connected to the VDD or VSS even when it is unused.

(Please contact our company for more information about selection of VDD or VSS.)

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.

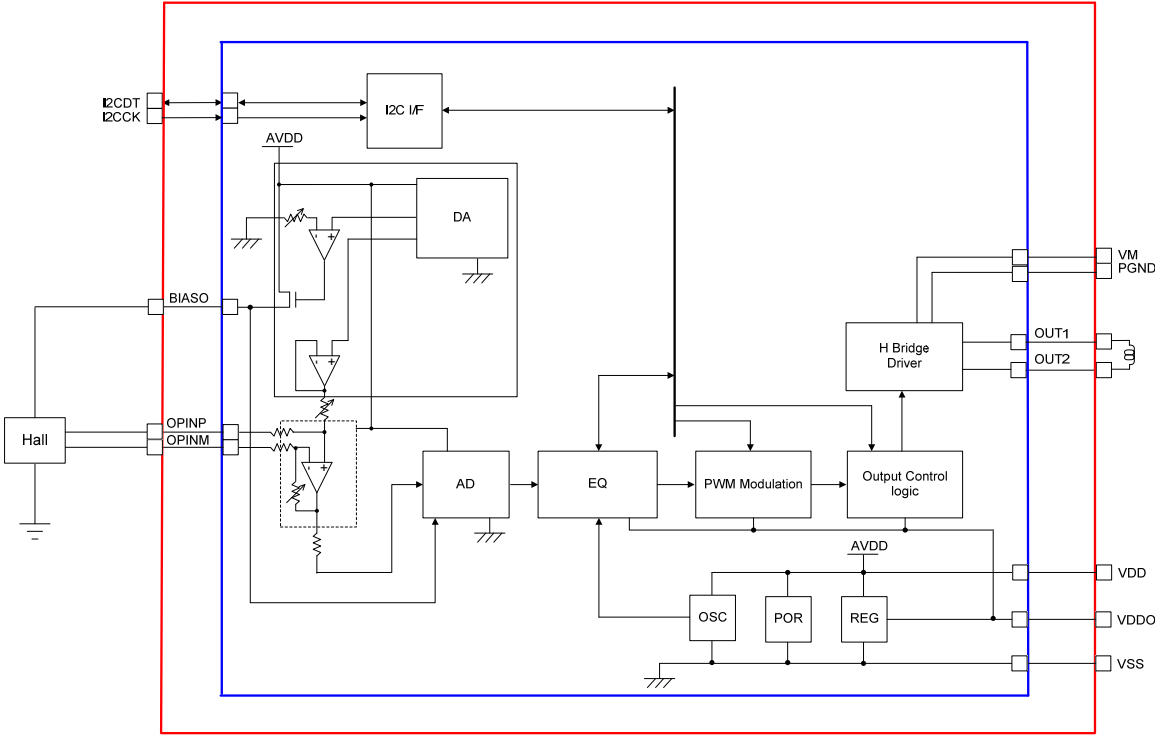
Pin Layout

| 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)

| | | | |
|---|-------|-------|-------|
| 4 | VDDO | VM | PGND |
| 3 | AVDD | I2CDT | OUT1 |
| 2 | OPINP | I2CCK | OUT2 |
| 1 | VSS | OPINM | BIASO |
| | A | B | C |

Block Diagram

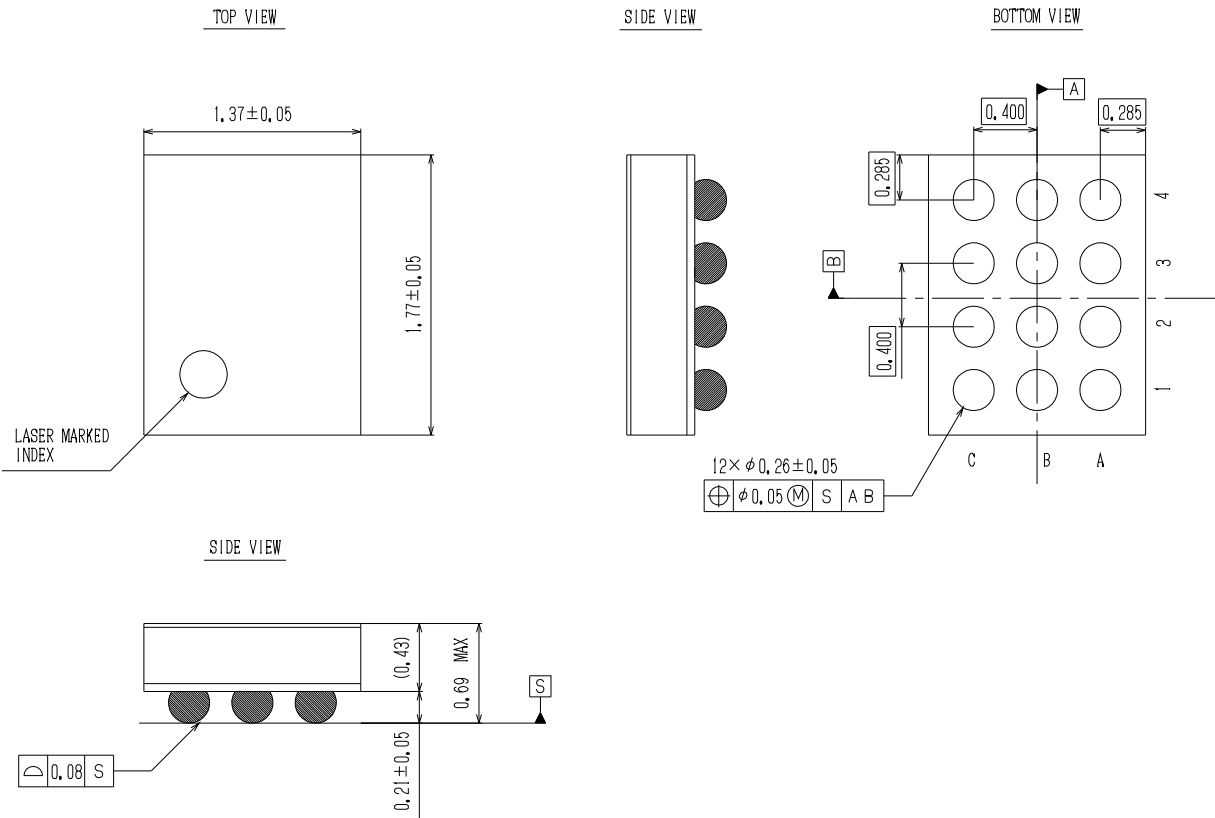


LC898212XC

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 |

ON Semiconductor and the ON logo are registered trademarks of Semiconductor Components Industries, LLC (SCILLC). SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.