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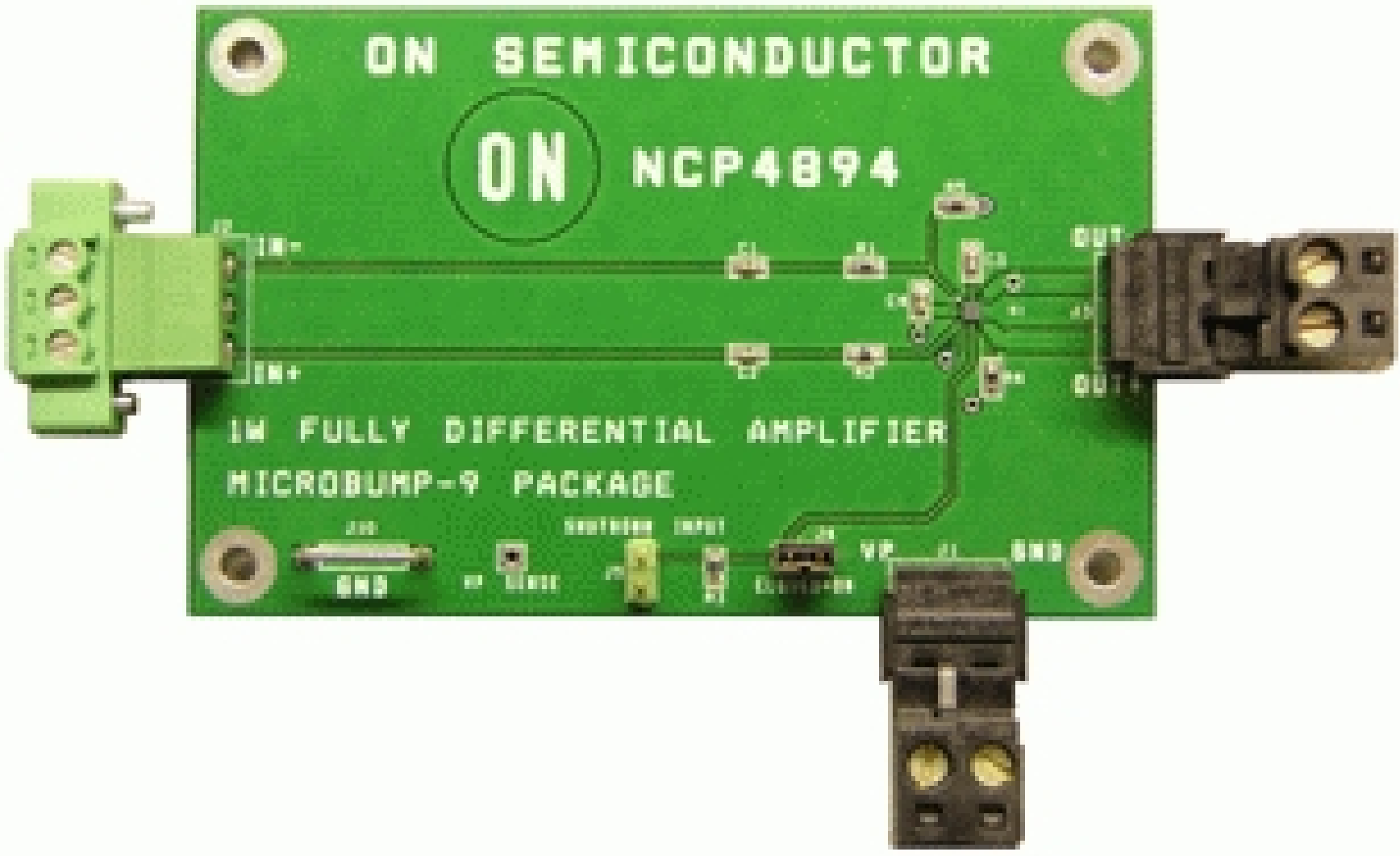
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## NCP4894FCEVB:NCP4894 1 W Differential Audio Power Amplifier Evaluation Board

Evaluation Board Description

The NCP4894 is a differential audio power amplifier designed for portable communication device applications. With less than 0.01% distortion (THD + N), the NCP4894 is capable of delivering 1.0 W of continuous average power to an 8.0 Ohm load from a 5.0 V power supply.



The NCP4894 is offered in a 9 pin Microbump chip scale package for optimum space saving or a Micro10 package. The NCP4894 gain is set by the ratio of two external resistors. The demo board uses the Microbump package in a unity gain configuration.

### Features and Applications

#### Features

- ? Differential Amplification
- ? Shutdown High or Low Selectivity
- ? 1.0 W to an 8.0 Ohm Load from a 5.0 V Power Supply
- ? Superior PSRR: Direct Connection to the Battery
- ? Pop and Click Noise Protection Circuit
- ? Ultra Low Current Shutdown Mode
- ? 2.2 V - 5.5 V Operation

### Evaluation Board Information

| Evaluation Board | Status | Pb-free | Short Description                                               | Parts Used   | Action                     |
|------------------|--------|---------|-----------------------------------------------------------------|--------------|----------------------------|
| NCP4894FCEVB     | Active |         | NCP4894 1 W Differential Audio Power Amplifier Evaluation Board | NCP4894FCT1G | Contact Local Sales Office |

| Technical Documents        |                                               |                                           |     |
|----------------------------|-----------------------------------------------|-------------------------------------------|-----|
| Type                       | Document Title                                | Document ID/Size                          | Rev |
| Eval Board: BOM            | NCP4894FCEVB BILL OF MATERIALS                | NCP4894FCEVB_BOM.PDF - 64.0 KB            | 2   |
| Eval Board: Gerber         | NCP4894FCEVB GERBER LAYOUT FILES (ZIP FORMAT) | NCP4894FCEVB_GERBER.ZIP - 32.0 KB         | 2   |
| Eval Board: Schematic      | NCP4894FCEVB SCHEMATIC                        | NCP4894FCEVB_SCHEMATIC.PDF - 31.0 KB      | 2   |
| Eval Board: Test Procedure | NCP4894FCEVB TEST PROCEDURE                   | NCP4894FCEVB_TEST_PROCEDURE.PDF - 74.0 KB | 3   |

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