



**Ag301 Evaluation  
Board User Manual**

Version 1.0 – Feb 2014

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### **3 Introduction**

This manual is intended to be a guide to using the “EVALAg301 evaluation board” with a Silvertel Ag301 wireless power receiver module.

Because the Ag301 is provided without pins, it will be solder directly onto the evaluation board before being shipped.

### **4 Board Description**

The EVALAg301 evaluation board is powered through the power receiver coil L1 when placed on the interface surface of the EVALAg311 or another Qi compatible power transmitter. When the Ag301 establishes a wireless power transfer contract to the power transmitter, D1 is illuminated and the output is switched on.

The output 5V is available on J1 pin 1 and 2 or the center pin of J2. 0V will be available on J1 pin 3 and 4 or the outer ring of J2.

If J4 is shorted the EVALAg301 will switch off the output and indicate to the power transmitter that the power transfer has completed successfully (e.g. battery fully charged).

If J3 is shorted the EVALAg301 will switch off the output and indicate a wireless power transfer error to the power transmitter (e.g. using an external over temperature circuit).

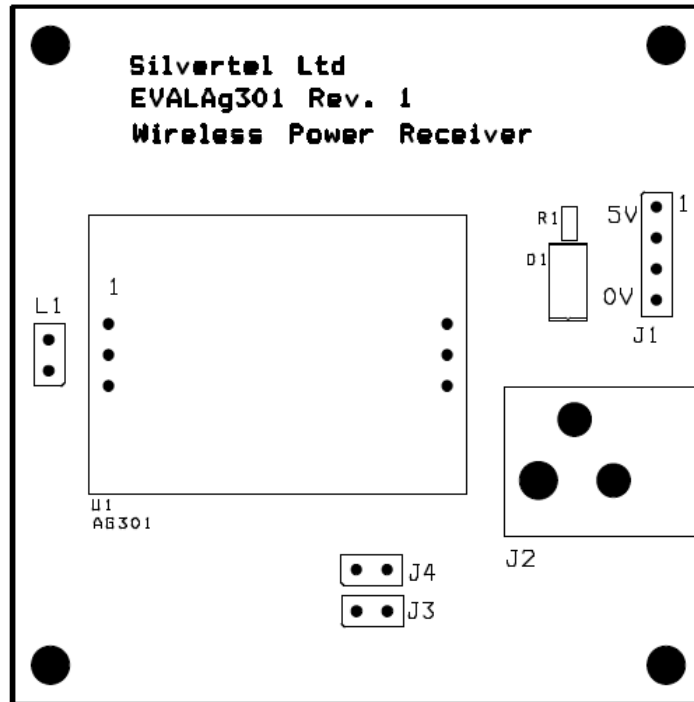


Figure 1: EVALAg301 Board Layout

## 5 Test Setup

Figure 4 shows the basic set up using the EVALAG301 evaluation board powered by the EVALAG311 evaluation board with a power supply input. EVALAG301 should have the load connected before placing in on the primary coil of the EVALAG311.

The equipment required: -

- Power supply Input +19V IN e.g. 19V laptop power supply
- Output power cable and load

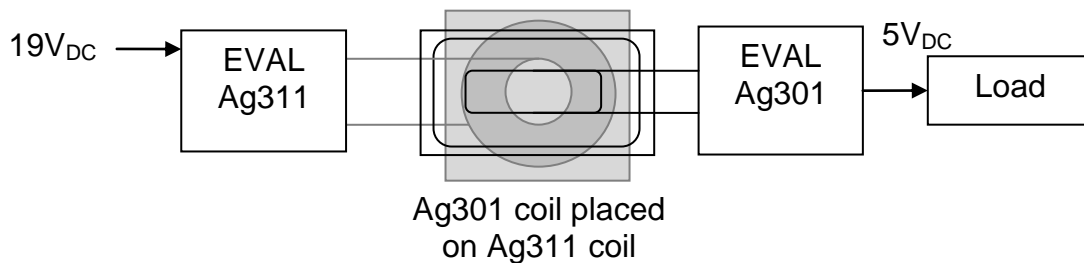


Figure2: Basic set-up

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