

## **ECO-0011 Connecting Analog and Digital Grounds on TRX Board – December 14, 2004**

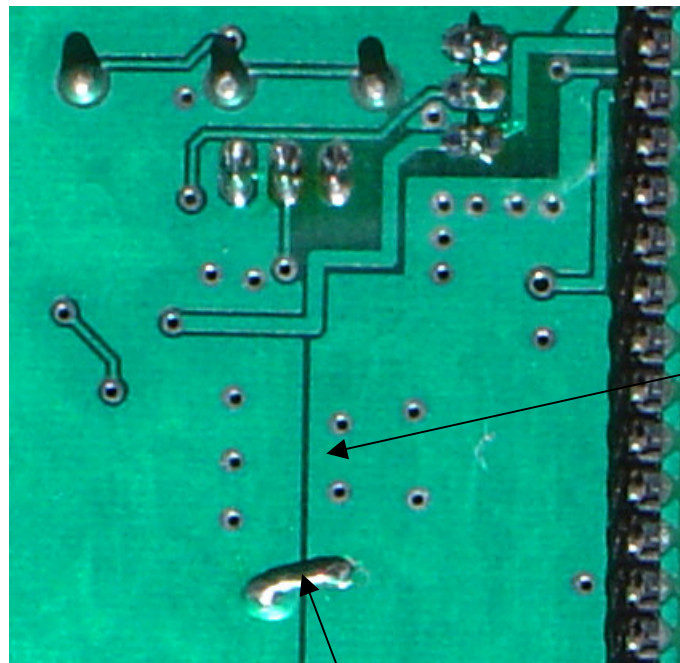
The TRX board is designed such that there are separate ground planes for the DDS analog and digital ground pins. It has been determined from discussions with Analog Devices, that the two grounds should not be separated on the PC board. A voltage differential can exist between the grounds that can cause tuning problems with the DDS. A simple wire jumper between two holes in the ground plane corrects this potential problem.

All TRX boards shipped after December 10, 2004 include the modification.

### ***Modification Procedure***

Solder a short piece of bus wire between two circuit board holes in the ground planes under the DDS chip (IC4) as shown in the photo below. Lead clippings from components such as resistors or capacitors can be used for the bus wire. It may be beneficial to scrape away a small amount of solder mask around each hole to give more area for solder to flow.

#### **Solder Side of TRX Board**



This area under IC4  
DDS Chip

Bus Wire Jumper