

## Optimizing High-Power Digital Injection Using the Shively Labs Fine-Matching Transformer

### The objective:

(Figure 1) The analog and digital signals combine with a high degree of isolation.

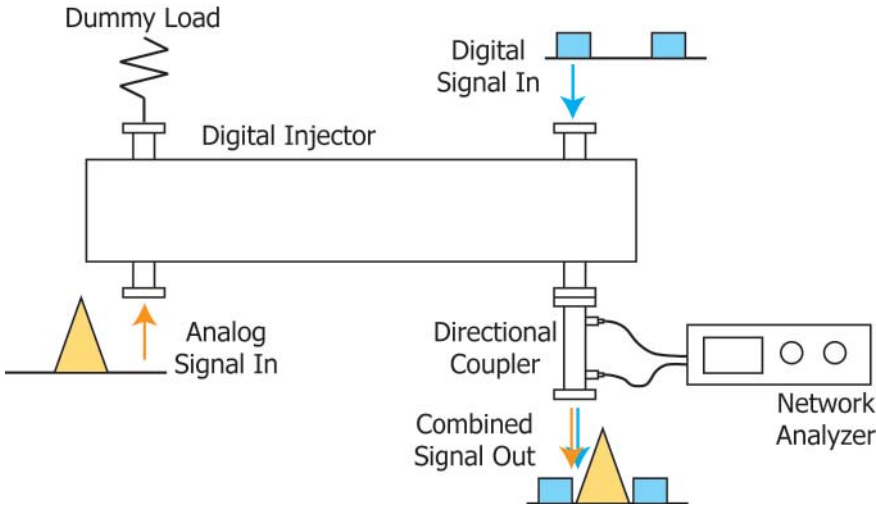


Figure 1. The Objective

### The problem:

(Figure 2) Some manufacturers' injectors do not provide enough digital-to-analog or analog-to-digit isolation. The output signal is distorted, as shown by the red arrows.

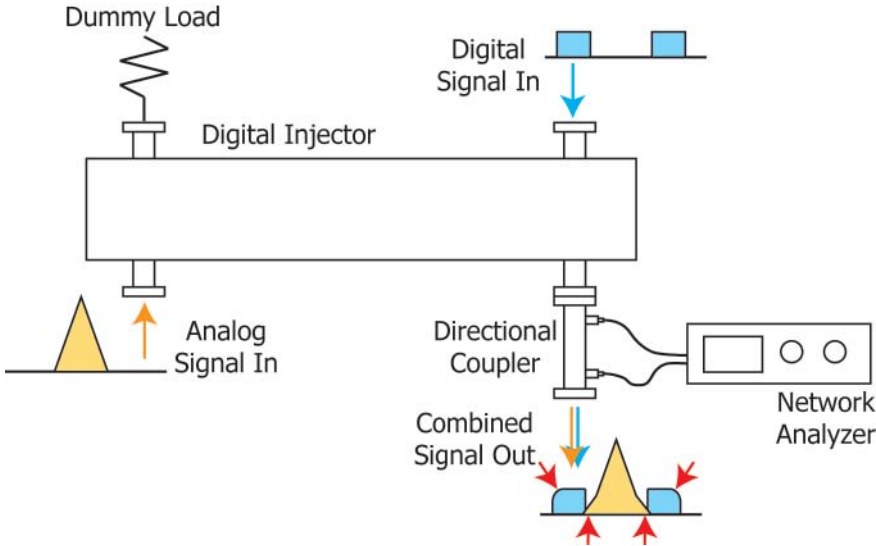


Figure 2. The Problem

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## The solution:

(Figure 3) Simply install a Shively Labs fine-matching transformer between the injector and the dummy load.<br>Adjust the transformer to correct the output signal!

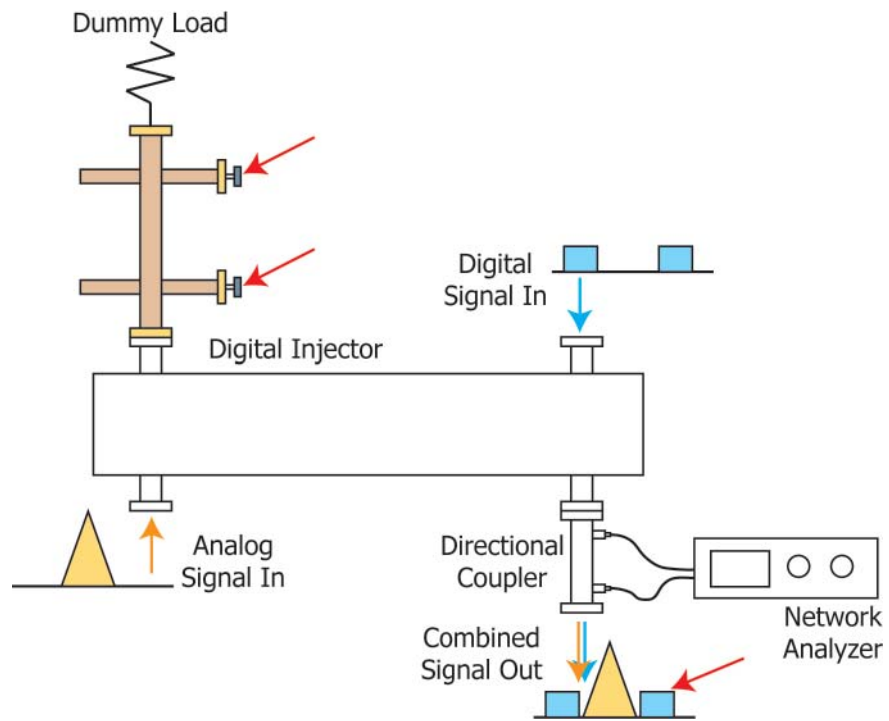


Figure 3. The Solution