Electronics & Innovation, Ltd. July 2011 Newsletter

July 2011 Newsletter

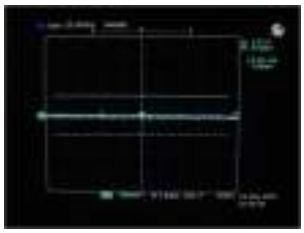
Issue 10

Greetings

This month has been a busy one for E&I as we continue to develop new products and utilize new technologies. We hope you enjoy this month's newsletter as we share with you our newest technique in reducing the sound in our amplifiers as well as releasing our latest Phased Array System.

The Sound of Silence

In many applications spurious noise on RF signals can present a major problem, becoming very detrimental to the quality of the system. Noise on the output signal of an RF Amplifier can come from a variety of sources. Each of these sources needs to be considered separately in order to eliminate or minimize the noise in each case - and that is just what we have done.



Above, we look at the result in the time domain, as voltage. Before the filter circuit was implemented we could see low level noise at 2.3 Volts p-p (see left). And afterward at less than 160 mV p-p (see right). This work was done on the E&I 350L Broadband RF Amplifier - it is now being implemented on all of our models.

Click here to read the entire article.

Product Watch

E&I's latest development in Phased Array Applications is the 2A075 RF Power Amplifier. The 2A075 produces 75 Watts of Class A

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Event Calender

The last stop for E&I in 2011 is the IEEE International Ultrasonics Association Symposium. This show is scheduled to take place in Orlando, Florida on October 18th - 21st. For a list of exhibitors along with additional program information, click here.

RF Amplifier Webinar

If you missed last month's webinar, you can still view the slide deck. The webinar presented an introduction to RF and Microwave power amplifier design and characteristics. Included in the discussion were: basic power amplifier concepts, classes of operation, linearity, and efficiency enhancement

linear power, from each channel, over the entire frequency range from 300 KHz to 35 MHz.

- Dual Channel
- Instantaneous Bandwidth
- 300 KHz - 35 MHz
- 75 W 1dB Compression
- Solid State
- Air Cooled

The 2A075 is useful for ultrasonics, testing, general laboratory use as well as phased array applications. For more details, including the datasheet - please check out our **website**.

techniques.

Feedback

As always, we welcome your feedback. If there is a specific topic you would like addressed, please let us know - any questions or comments can be sent directly to **Jen Elkins**.

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