

Featured Products Bulletin

CIRCUIT PROTECTION PRODUCTS

Bourns Releases the Application Note *Fast Surge Protection for RF Ports in Handheld Instrumentation*

Riverside, California - November 16, 2012 - Bourns is pleased to announce the release of the new Application Note, *Fast Surge Protection for RF Ports in Handheld Instrumentation*. The Application Note explores typical base station measurements; the need for adequate surge protection in RF analyzers; fast blocking, high current solutions; and effective protection of RF instrumentation.

As base station towers increasingly dot the landscape over the coming decades, there will also be a growing need for portable equipment to monitor the health of coaxial feeder cables on-site as well as the quality of transmission signals.

Bourns provides developers of handheld analyzers for cellular base stations with viable and effective primary protection solutions with products such as Surface Mount Gas Discharge Tubes, TVS Diodes and TBU® High-Speed Protectors.

This application note is posted on our website at www.bourns.com in the [Technical Library](#)/TBU® High-Speed Protector section, and on the [TBU® High-Speed Protector Product Page](#)/Application Note category.

Should you have any questions or need additional information, please feel free to contact [Customer Service/Inside Sales](#).

The image shows the cover of an application note. At the top, there are two photographs: one of a person using a handheld device and another of a cellular tower. Below the photos is the title 'Fast Surge Protection for RF Ports in Handheld Instrumentation' and 'APPLICATION NOTE'. The cover features three product images: a TBU High-Speed Protector (TBU-C005-VT0-001), a TVS Diode (CDS121-04712), and a Surface Mount Gas Discharge Tube (SMD-GDT-004). The 'INTRODUCTION' section discusses the need for surge protection in RF instrumentation. It includes a bar chart (Figure 1) showing 'Avg. Open Revenue' and 'Avg. Open-to-Revenue Ratio' from 2001 to 2011. The chart shows a steady increase in open revenue from approximately \$100 billion in 2001 to over \$200 billion in 2011, with the ratio remaining relatively stable around 10-15%. A block diagram (Figure 2) illustrates the connection between a tower-mounted amplifier, antenna, tower, feeder cable, base station, and equipment shelter, with an analyzer connected to the feeder cable. The Bourns logo and part number 11/12 - 6101212 are at the bottom.