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July 2010

**FEATURED PRODUCT >>**

- Electro-Mechanical Broadband RF Switch.
- Single-Stage Driver Amplifier
- Quad-Band EDGE Radio Solution
- Modeling 3G / WCDMA / HSDPA
- Composite Filters
- Integration of Waveguide
- Coaxial Components
- Antennas Needed
- And More...

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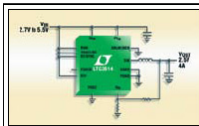
 Products / Ads  Articles[Click Here To View All Current Issue Products](#)**TWT Amplifier**

The dB-4522 traveling wave tube (TWT) amplifier is designed for use in military manned and unmanned airborne applications, electronic countermeasures, EW threat simulation, and high-power communication. The unit features very stable performance and built-in forced air cooling. It meets 5400T equipment standards and is designed for use in harsh environments with temperatures between -40

+71°C ambient and at altitudes of up to 50,000 feet. In addition, the high-efficiency design and modular construction of the dB-4522 facilitate options such as custom frequency bands, high power outputs, RF gain control, and custom interface protocols.

**DB CONTROL**[Go to Website](#)[Email this product to a friend!](#)**Spectrum Analyzer**

The compact FSC spectrum analyzer delivers all of the key characteristics of a professional spectrum analyzer, handling all basic functions such as RF spectrum measurement and power measurement. Frequency range starts at 9 kHz and extends to a maximum of 6 GHz.

**Synchronous Step-Down Regulator**

The LTC3614 is a high efficiency synchronous buck regulator that incorporates a constant frequency, current mode architecture capable of switching frequencies up to 4 MHz. Low resistance internal switches allow the unit to

deliver up to 4A of continuous output current.



#### **TWT Amplifier**

Model 177Ka, a state-of-the-art TWT amplifier, provides 750W peak power at duty cycles up to 10% from 34 to 36 GHz. The

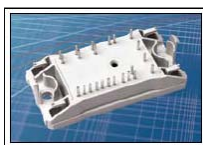
RF output pulse width tracks the input 5V video pulse. Internal power supplies are DC-DC converter designs operating at 50 kHz.



#### **SMA Transfer Switches**

This new micro miniature SMA transfer switch is a compact design that incorporates SMA

connectors to allow high-density packaging and excellent electrical performance through 26.5 GHz. The switch is available in failsafe and latching configurations with a choice of three different frequency ranges and three different coil voltages.



#### **Parallel Boosters**

New 900 and 1200V parallel boosters were designed for solar and SMPS applications. The 900V booster features 900V CoolMOSTM C3

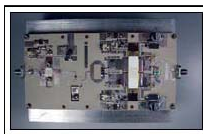
MOSFETs and the 1200V booster is equipped with 1200V high-speed IGBTs. Both benefit from ultrafast 1200V SiC boost diodes and bypass diodes with low forward voltage. They are packaged in the company's standard flow 0 2-clip housing, just 66 x 33 x 12mm.



#### **Mounting / Grounding Adaptor Bracket**

The LP-BFDN-CW bulkhead-to-flange universal mounting and grounding adaptor

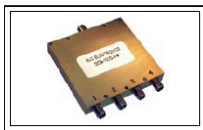
bracket is the newest addition to the Times-Protect™ line of innovative RF lightning and surge protection products. It is made of copper with a white bronze plating and accommodates both N and DIN type protectors.



#### **Integrated Power Modules**

Three new 50 ohm modules that integrate numerous RF power transistors for higher power and gain

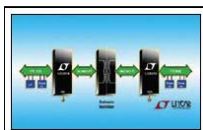
performance on a single PCB have been released. These high power pallet amplifiers all utilize a gold metallization system to achieve maximum reliability.



#### **DC Block Power Dividers & Combiners**

Series DCB-1020 is an in-phase power divider/combiner with

high isolation, small size and superior performance in a single package. These units utilize microstrip construction with blocking capacitors on all ports except those that are intended to pass DC.

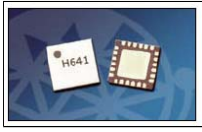


#### **Hot Swappable I2C Isolator**

The LTC4310 is a hot swappable I2C isolator that provides bidirectional

communication between two I2C busses whose grounds are isolated from one another. It is suitable for many isolated applications,

including isolated I2C, SMBus and PMBus interfaces, PoE, and more.



#### **Non-Reflective MMIC SP4T**

A ceramic SMT packaged GaAs pHEMT SP4T MMIC switch, the HMC641LC4, is ideal

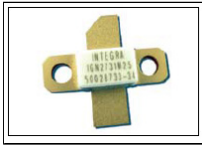
for industrial sensors, test and measurement, microwave radio, military EW and space applications from DC to 20 GHz. It requires no external matching components and is compatible with high volume surface mount manufacturing techniques.



#### **Energy Storage/Power Delivery Solution**

About the size of a can of soda, each K2 Series BOOSTCAP® cell operates at 2.7V and delivers high

performance, durability and long operating lifetime. These new ultracapacitors from Maxwell Technologies are an ideal source of back-up and pulse power.



#### **New GaN Technology**

The company's development of high voltage Gallium Nitride (GaN) on Silicon technology has resulted in the launch of two

new products, the IGN2731M25 and IGN2731M50. This is the first high voltage GaN-on-silicon HEMT process with drain-source breakdowns exceeding 200V. Both operate over the instantaneous bandwidth covering 2.7 to 3.1 GHz in the S-band frequency range.