EDR, Inc/VSHolding announces third generation Ultra-Fast I-V Biases Generators (UFBG) designed for real-time MRI, Magnetic Resonance Spectroscopy (MRS) and Ultrashort TE (UTE) Imaging

Louisville, KY, February 26, 2015: Electronic Design & Research has added one more family of devices to its product line featuring UFBG-602/A/6kV [P/N EDR88111/A/H6] intended for delivering biases power to PIN diode for removing ripples in receiving RF Coil during advanced MRI/MRS/UTE data acquisitions. The I-V Biases Generators are successfully used by researchers including GEHC, Synaptive Medical Inc. and others.

The UFBG-602/XXX utilizes high-speed SPDT&N and SPST switches and two power sources for delivering biases power in an extremely fast fashion. One, an adjustable voltage source, can be set at any voltage from +500 VDC to +1000 VDC; the other, a constant current source that delivers a -5 VDC /200mA. The SPDT&N (T4F152A05/5) switches biases in 150 nS from one to the other.

The SPST (D3F152A1/5) switch is for discharging an excess of energy accumulated in an output capacitance that occurred while the +V was applied. Fast discharging of the +V residual helps shorten a delay of delivering the -V onto a load (PIN diode). That allows removing ripples in the receiver signal RF coil within a microsecond, thus enabling high-speed data acquisitions. For comparison, that time could be quite long (from 50µs to 200µs) with “600 and 601” models using external power sources due to lengthy hook up cables. UFBG-602/XXX devices are 100% solid-state with built-in electronic protections that ensure long, trouble and maintenance free operation even if a load fails on multiple occasions.

Multiple attachments are available for all models. The cost of a device highly depends on required options, such as a maximum voltage and current, types of warnings, remote control, disable output for RF amplifier, etc. A volume discount is available.

UFBC-600/XXX/5/3kV costs $5,046. It’s rated at 3 kV isolation and required external bias power sources.
UFBC-601/XXX/5/6kV costs $8,478.95. It is rated at 6kV isolation and requiring external bias power sources. (NOTE: UL certified)
UFBG-602/XXX/6kV costs $14,823.50. It is a stand-alone device, rated at 6kV isolation, included all bias power sources. (NOTE: UL certification will be obtained at the end of 2015).

For more information visit [http://www.vsholding.com/datasheets/UFBG.pdf](http://www.vsholding.com/datasheets/UFBG.pdf) or email to [info@vsholding.com](mailto:info@vsholding.com)

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Electronic Design & Research Inc has been the world's innovative leader in manufacturing solid-state switching products for nearly 20 years. The company's comprehensive product line includes Solid-State Modules such as SPST, SPDT, DPDT and DPST Relays/Switches, H-Drivers, Super-High Power Switching Systems, Security Modules, Fog-Bulb relays, Super-Fast High-Voltage Switches, and many more, meeting a wide range of requirements for industrial, commercial, military and aerospace uses worldwide. We also manufacture a super-high resolution EKG (H-EKG), comb filters, super-low noise preamplifiers, precision frequency synthesizers, IJ-shape digital filters, universal analog blocks, CAA DC/DC converters, 3ph pseudo-resonance type AC drivers, etc.