



Press Release

CAP Wireless Announces New Version of Spatium RM022020 High-Power Instrumentation Amplifier

Solid-state power amplifier delivers enhanced performance and spurious response

NEWBURY PARK, Calif. — April 15, 2008 — CAP Wireless, Inc. (CAP), a leading supplier of high-performance microwave and RF amplifiers and amplifier-based subsystems, today announced a new version of its RM022020 power amplifier (PA) with enhanced performance that provides both excellent pulse fidelity and improved spurious response (typically -85dBc). The RM022020, which was introduced in the fall of 2007, is the first in a series of high-power instrumentation amplifiers based on the company's patented Spatium™ broadband spatial combining technology. Developed specifically for test environments that demand extreme bandwidth without switching or reconnecting amplifiers, this solid-state amplifier provides 20 watts nominal saturated output power over an instantaneous band of two to 20 GHz. It offers superior intermodulation distortion (IMD) performance, linearity, and gain flatness, without the warm-up, drift, or aging issues associated with traveling wave tube amplifiers (TWTAs).

The RM022020 comes in a compact rack-mount package and provides 45 dB gain (variable over 10 dB), enabling it to be driven with standard lab signal sources. It features excellent pulse fidelity, low noise figure ($<8\text{dB}$) and, with safe operation into 10:1 voltage standing wave ratio (VSWR), is highly load tolerant. Designed for general lab use, the unit saves time and increases productivity by eliminating additional calibrations, reconfigurations, and errors associated with connecting or switching multiple amplifiers.

About Spatium Technology

Spatium™ broadband spatially combined power amplifiers from CAP Wireless obsolete today's power amplifiers and make the unachievable a reality. Spatium amplifiers excel when extremes of bandwidth and power are demanded. The patented technology, which incorporates a coaxial antipodal finline structure within a proprietary spatial combining architecture, provides a breakthrough product that combines the stability of solid-state amplifiers with exceptionally broad bandwidth and high power. Spatium's unique circuit topology enables a highly manufacturable platform that leverages component commonality between different models. This eliminates time-consuming redesigns for each variation and increasing repeatability unit-to-unit, resulting in significant time-to-manufacture cost-savings for

customers. Spatium power amplifiers are uniquely positioned to meet the demanding specifications of applications such as electronic counter measures (ECM), laboratory instrumentation, and electromagnetic compatibility/electromagnetic interference (EMC/EMI) test, as well as narrower band applications like radar, microwave imaging, and satellite communications.

About CAP Wireless

CAP Wireless develops and manufactures a broad range of RF and microwave amplification products and related subsystems for homeland security, defense electronics, and commercial microwave markets. The company's Spatium product line provides extremely broad bandwidth, high-power, solid state amplifiers for applications such as electronic warfare (EW) systems, radar and communication systems, laboratory instrumentation, and electromagnetic compatibility and interference testing. Applications currently in development include high-power amplifiers for radar, microwave imaging, and satellite and terrestrial communications systems. CAP Wireless, Inc. is a privately held corporation headquartered in Newbury Park, CA. For more information about CAP Wireless and its products, please call 805-499-1818, email info@capwireless.com, or visit www.capwireless.com.

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