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For immediate release

WAVEFADE™ Filters

Morgan Hill, CA 11/14/07 - [Marki Microwave, Inc.](#), premier supplier of microwave mixers and mixer-based components for commercial and military markets announces a new filter product line, WAVEFADE™.

It is well known that conventional filters based on lumped LC technology operate in a reflective mode in which out-of-band energy is reflected back towards the source. In many applications, this reflected energy is unacceptable and can lead to system degradation in the form of crosstalk/interference between circuits and jitter accumulation in amplifiers. A common solution is to create absorptive filters which use RLC filter networks which dissipate the out-of-band energy in the resistors. While effective at improving return loss, absorptive RLC-type filters cannot achieve flat group delay far beyond the filter cutoff.

Marki Microwave has developed a new filter product line, WAVEFADE™, based on a new distributed absorptive filter technology. Owing to their novel design, WAVEFADE™ filters offer unparalleled performance with cutoff frequencies ranging from less than 1 GHz through 30 GHz with high out-of-band return loss (< -15 dB @ $2f_0$), high rejection (< -12 dB @ $2f_0$) and flat group delay far beyond cutoff. This new filter technology can be used in both microwave and telecom applications and is ideally suited for high sensitivity receivers and compressed spectrum modulation formats such as Duobinary.

Marki Microwave, Inc. is the premier manufacturer of microwave mixers worldwide, offering the industry's most comprehensive line of signal processing products up to 65 GHz. Marki's extensive product line includes mixers, doublers, multipliers, and specialty components ranging from amplifiers to DC blocks and bias tees. Marki Microwave employs precision assembly using both solder and wire bonding techniques. Test facilities include state-of-the-art equipment for measurement from DC to 65 GHz. All assembly, inspection, and testing is done onsite to assure uniformity and repeatability of performance. Marki Microwave is certified to ISO 9001:2000.

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