



## MtronPTI Adds Second SDR Tunable Filter

Extending Range for NATO Have Quick IIA and Saturn Radios

**Orlando, FL, September 5, 2013** – MtronPTI, leader in harsh environment RF & microwave filters and custom frequency control products, today continued to expand their tunable filter line with the TF0105 Low Loss 200 – 400 MHz Digitally Tuned Filter for secure radio receivers. Mike Howard, Vice President of filter engineering, says, “Radio architectures continue the shift to software defined radio (SDR) with frequency hopping the technology of choice for hostile environment communications. MtronPTI is pleased to expand our offerings with the TF0105 Tunable Filter for NATO Have Quick IIA, SATURN and similar secure equipment.”

Secure radios insure battlefield communication between soldiers, vehicles, aircraft and ships is undetected and uninterrupted. Increasingly these radios also see action in urban situations with civilian and entertainment broadcasts which generate interference and also should not be disrupted. The key to security is frequency hopping with software defined modulation and encryption. But frequency agility breaks the classic fixed frequency radio filter architecture.

Mike explains, “MtronPTI saw some time ago that the days of fixed frequency radios were numbered. Working with our large OEM radio manufacturing clients, we designed a line of low loss digitally tuned filters. Earlier this year we released the 225 – 520 MHz TF0108 and now we’re introducing the 200 – 400 MHz TF0105, both with much lower insertion loss than alternatives. There are more tunables in the pipeline – increased power transmit, wider frequency band and multi-band filters, to suggest a few.”

Sampling today, MtronPTI’s TF0105 200 – 400 MHz Low Loss Digitally Tuned Filter provides 250 programmable center frequencies across the Have Quick IIA band. Passband insertion loss, a measure that contributes directly to receiver range, is a low 3.2 dB, much lower than the typical 5 – 6 dB of competing designs.

Tunable *receive filters* limit the spectrum to only the channel of interest that millisecond, increasing range and blocking potential distortion from off-channel sources. Tunable *transmit filters* reduce energy emitted off-channel; lightening the load on nearby radios assigned an adjacent channel – important when forces are concentrated in one location such as in disaster response. *Low insertion loss* tunable filters increase radio range or reduce power required for the same range.

### About MtronPTI

MtronPTI is an AS9100 rev C certified designer and manufacturer of advanced highly engineered frequency control and filter products for aerospace, defense, instrumentation and Internet communication applications. Based in Orlando, Florida, with design, sales and manufacturing locations in North America, Asia and Europe, MtronPTI is a subsidiary of The LGL Group (NYSE MKT: LGL). For more information, visit <http://www.mtronpti.com> and <http://www.lglgroup.com>.

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### Contact:

Phil Smith – Director of Marketing  
[psmith@mtronpti.com](mailto:psmith@mtronpti.com)  
407-298-2000 x 2316