



MtronPTI Sharpens Digital Communication Focus

Expands industry compatible tuned filter line with models to 1 GHz

Orlando, FL, November 21, 2013 – MtronPTI, leader in precision frequency control and custom RF/microwave filters, today announced the TF0103 Low Insertion Loss 30 – 90 MHz Digitally Tuned Bandpass Filter and expanded their industry compatible tunable line spanning frequencies up to 1 GHz. Paul Dechen, MtronPTI Vice President of Worldwide Sales, says, “Digital RF communication is now the norm. As digital-to-analog and analog-to-digital conversion technologies move closer to the antenna, filter requirements change dramatically. Although demand will continue for custom crystal, ceramic, LC and cavity filters, the design focus at many of our clients is turning toward digitally tuned and switched filter arrays. The TF0103 Digitally Tuned Filter and our expanded frequency hopping line offer radio designers what they need: digital RF agility, extended radio range from a lower loss filter design and an industry compatible package.”

With over 500,000 tactical radios in service today, the Strategy Analytics Advanced Defense Systems (ADS) service report, “Ground Communications Systems and Components Forecast 2012-2022” July 1, 2013, forecasts land-based tactical radios to grow at about 7.2% CAGR to reach almost \$4.5B. Handheld radios will be about 94% of shipment volume. Multi-band radios will grow fastest with electronic component growth at 14% CAGR, reaching \$721M by 2022.

Paul continues, “Handheld radios typically dock in vehicle adapter amplifiers to boost radio range. These VAAs are where MtronPTI’s tunables fit – reducing cosite interference on the transmit side by limiting out-of-band emission and allowing increased sensitivity on the receive side by blocking nearby off-channel transmissions. MtronPTI’s TF010x series is pin compatible with industry standard MiniPole[†] filters while providing typically lower insertion loss and self-generated distortion.”

Sampling now, the TF0103 30-90 MHz Digitally Tuned Filter supports the SINCGARS tactical radio band, providing 250 tuning steps of 240 kHz each with 25 μ s switching time. Insertion loss is 3.6 dB with power handling in-band up to 1.25 Watts. Third order intercept (IP3) is +45 dBm minimum and out-of-band power can be up to 5 Watts @ \pm 10% off the tuned frequency.

The TF010x digitally tuned filter series is available in standard versions of 30-90, 90-200, 200-400, 225-400, 225-512, 225-520, 400-700 and 700-1000 MHz. Custom frequency ranges, start/stop frequencies, bandwidths, blanking and bypass modes are available upon request. Digitally tuned filters are also used in portable small cell and radar applications with different power levels and tuning specifications. Contact MtronPTI for more information.

([†] “MiniPole” is a trademark of Pole/Zero Corporation)

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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