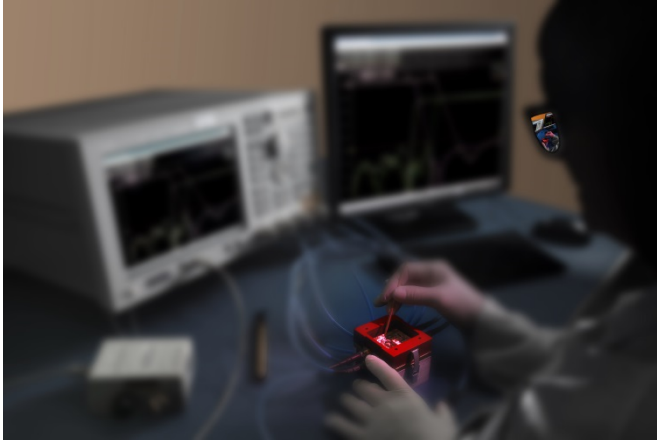


Sharpen the focus

Outsourcing a 30 Watt 7-way switched filter bank frees engineering resources



Clarify the mission

When a large, multi-national high performance electronics company tunes its strategy to **anticipate client needs earlier**, it must free up engineering bandwidth. One proven way is to focus on what you do best and partner with others for the rest. That's exactly what this \$3B Client did, turning to MtronPTI.

The tactical radio business needs more performance in a smaller size but more importantly, defense purchasers would now rather see complete systems working ahead of time instead of just trusting that contracted specs will be met. This means anticipating the need and building the system *before you get the order*. That takes more engineering earlier. So a conversation began about moving previously in-house filter design and production to a company that lives and breathes filters: MtronPTI.

MtronPTI accepted the task, designing a higher performance unit with lower risk since the RF design and tricky production tuning is left to the experts. The result? The Client's engineers have more time to think and be ready with the next radio **before their clients ask for it**.

About MtronPTI

MtronPTI offers a wide range of custom precision frequency control and data timing including: RF and microwave filters – crystal, cavity, lumped element, switched, digital and analog tunable – and low noise / harsh environment oscillators – crystal, TCXO, VCXO, OCXO, GPS and IEEE-1588 locked.

Vertically integrated with complete control of basic material science and manufacturing, MtronPTI provides high reliability high performance solutions for aero/defense communication and control, Internet communications, public safety radio, lab and field instrumentation and energy management applications.

One-on-one technical relationships, extensive characterization, and long term application support make MtronPTI the first choice to increase opportunity on your next system project.

SA0068

MtronPTI's SA0068 7-Way Switched Filter provides transmitter harmonic management with at least 30 dB of 2nd harmonic rejection in seven selectable frequency bands from 30 MHz to 512 MHz. With a low insertion loss of less than 1.3 dB, 30 Watts of power handling and a small, 65 mA current drain max, the SA0068 is ideal for applications such as multiband tactical radios and portable radio power amplifiers

MtronPTI's nearly fifty year history of precision, high performance spectrum and timing management expertise means a better filter with tighter tolerance at a lower cost than 'build-it-yourself' designs.

MtronPTI uses an AS9100 REV C and ISO 9001:2008 quality management system in the design and manufacture of the SA0068.

Applications

Commercial: multi-band radios
 Defense: tactical radios and portable radio RF power amps

Features

Operating frequency	30 MHz to 512 MHz
Insertion loss	≤1.3 dB @ 30 Watts
Second harmonic rejection	≥ 30 dB
High frequency attenuation	≥ 30 dB, 1.0 to 1.5 GHz
Switching time	≤ 6 μs

Product page

<http://www.mtronpti.com/products/Filter/Lowpass/SA0068>

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MtronPTI may change specifications without notice to improve end application performance or product manufacturability.
No liability is assumed as a result of product use or application.
Please contact MtronPTI for latest information.