



Product: Electronically Tunable Filter

NW part #: NWETF8010-10

Type: Filter

Application : Frequency agile RADAR and communication systems

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## **NANOWAVE press release**

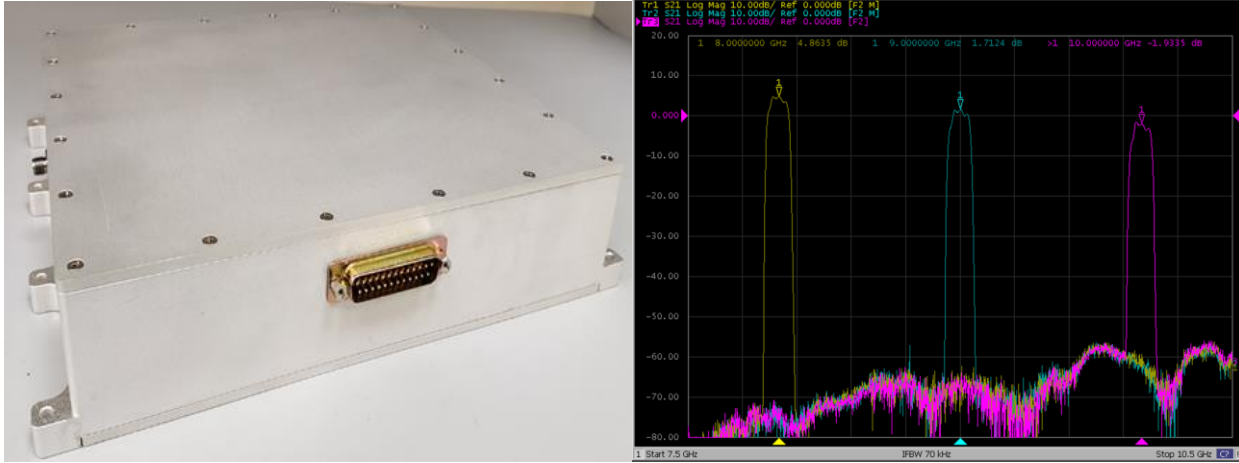
NANOWAVE is announcing a new Electronically Tunable Filter technology to meet the agility requirements of current and next generation radar and telecommunications systems. The patented ETF technology provides independent control of the filter center frequency and bandwidth.

An initial demonstration unit operating from 8GHz to 10GHz has been developed to TRL 4 which provides 10MHz to 100MHz electronically controlled 10dB pass band and 50dB stop band attenuation at 60MHz from the center frequency. The center frequency of the filter is electronically tunable from 8GHz to 10GHz. Both bandwidth and center frequency of the filter can be electronically controlled in frequency steps of less than 1MHz to the full operating band with a settling time to 50us.

The ETF technology is suitable for applications which require frequency agile filtering of low power microwave signals. Operating multiple ETF units in parallel can be used to enable frequency agile channelization.

The technology can be significantly reduced in size through integration of the core technologies into an RFIC and multi-chip module assembly.

The ETF technology is subject to the following NANOWAVE international patents US 9,264,017 B2, Canada 2, 852, 3831, CA2023/050153, U.K. 2982037, France 2982037, Germany 60 2013 035 568.



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