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SOLID-STATE MAGNETRON TRANSMITTERS SHAPE THE WAVEFORM USING MARX TOPOLOGY

PR Newswire

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BEDFORD, Mass., Oct. 21, 2025 /PRNewswire/ -- Diversified Technologies, Inc. (DTI) has introduced a high power, solid-state magnetron transmitter featuring a new Marx modulator that permits tuning of the pulse wave for fine-tuning the device.



DTI produces cutting edge DC Power Supplies, Pulse Modulators, and RF Transmitters, to meet critical needs in defense, scientific, and commercial systems.

DTI PowerMod™ High Power Solid-State Magnetron Transmitters utilize Marx topology for adapting the pulse shape in order to optimize the magnetron's performance and its delivery of 3 to 50 kW peak RF. Capable of driving magnetrons across the L to Ka band, they can be used with all major transmitter technologies including cathode, mod-anode, and grid pulsed.



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Providing precise RF control to within < 0.1% and 50 ns rise/fall, adjustable from pulse-to-pulse, and support pulse repetition frequencies up to 400 kHz, DTI PowerMod™ High Power Solid-State Magnetron Transmitters are a "plug and play" module with two multi-pin circular connectors and two BNC connections in addition to the magnetron which measures only 10" x 13" x 9".

DTI PowerMod™ High Power Solid-State Magnetron Transmitters are priced from \$50,000.00 to \$300,000.00, depending upon radar system requirements.

For more information contact:

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