



Cryo Circulator

When asked to redesign our W-band hybrid circulator for a quantum computing research project at cryo temperatures, we delivered!

F-Band Variable Attenuator

The WR-8 full band variable attenuator is coming soon. Which band comes next? Contact us about your needs and weigh in!

12,034,196

That is the patent number you will see on every MHC wide band and full band hybrid circulator from WR-15 through WR-3.4.

MMW Attenuator Limitations Spark Renewed Interest in Faraday Rotation Solutions

"The move up the electromagnetic spectrum (EM) into millimeter waves (mmWaves) is proving to be a double-edged sword. System designers eager to leverage wider bandwidths and incredibly high data throughputs must also contend with a host of new challenges."

MMW design engineers have a new alternative for their attenuator applications. We recognized and responded to the "clear need for a solution that combines the high-frequency performance of resistive vane attenuators with the compact size and speed of PIN diode devices.

[Read the article here](#) →



↓ Lowest Insertion Loss

⚡ Highest Power Rating

📊 RF Test Data for Every Unit

INC. 5000 NATIONALS



The Inc. 5000 is an annual list of the 5,000 fastest-growing private companies in the US. We made the INC 5000 2024 list. That's the second year in a row! Thanks to all our customers who are helping us to grow.

[You can read the press release here.](#)

A mm-Wave Circulator with High Transmitter and Receiver Isolation

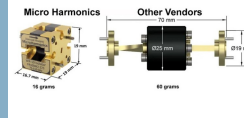
A leading manufacturer advertises a triple junction circulator with more than 35 dB isolation over 92-98 GHz. However, on closer inspection, we find that the isolation of the receiver from the transmitter is actually less than 20 dB, a fundamental limitation in the Y-junction technology.

[Learn how we can overcome this.](#)

MM-Wave FUN FACT

Dr. Percy Spencer, while working for Raytheon, discovered that microwaves, primarily used in radar systems at the time, could also be used for cooking by unintentionally melting a chocolate bar in his pocket. This discovery paved the way for the creation of the first microwave oven. *

*Smith, Nathan. "Ride the (Electromagnetic) Wave With Percy Spencer" | Inside Adams: "The Library of Congress, 25 Jan. 2021, blogs.loc.gov/inside_adams/2021/01/microwaves.



How to Choose an Isolator

It is common to think of isolators simply in terms of how well they isolate. But there are nine important attributes which should be taken into consideration

[Learn more](#)



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