

## Self-Biased Circulators and Isolators

Metamag's products assure access to the electromagnetic spectrum in highly congested RF environments, specifically for SIGINT, EW, Radar, and Communication systems. Our product portfolio builds upon novel RF analog signal processing effects that are realized at the component and sub-system level, enabled by Metamag's self-biased circulator technology.

Metamag's self-biased circulators and isolators demonstrate a 90% reduction in size and weight over conventional permanent magnet solutions. Self-biased circulators and isolators are offered in a planar, monolithic package, allowing them to withstand levels of shock and vibration that far exceed those attainable by microstrip permanent magnet solutions. Self-biased circulators and isolators thus are ideal for harsh conditions such as missile launches and other munitions applications.



COMMERICAL CIRCULATOR



METAMAG'S SELF-BIASED CIRCULATOR

**Figure 1:** Renderings of a commercial circulator and Metamag's self-biased circulator

Metamag's self-biased circulators and isolators are offered from 26 – 110 GHz. For more information about capabilities and options, please contact our sales department at [sales@metamag.us](mailto:sales@metamag.us).

### Contact Information

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