



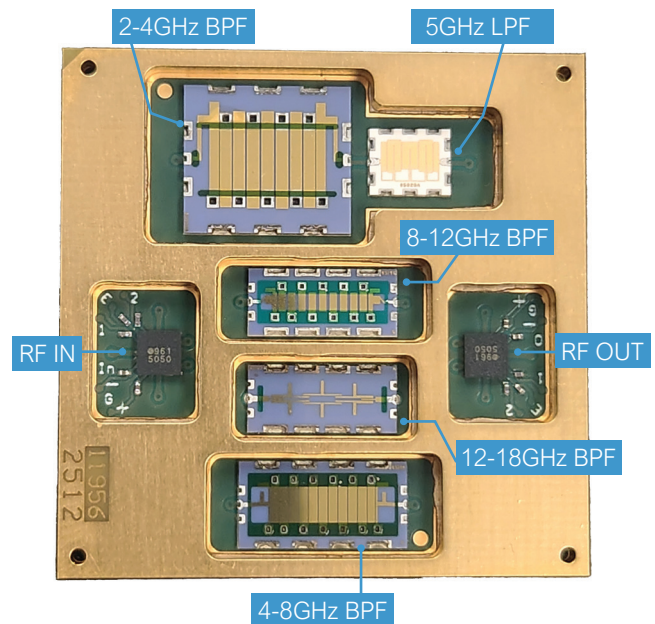
# Switched Filter Banks

Push the boundaries on size while maintaining reliability

In aerospace and defense systems, SWaP considerations are critical. Packaged switched filter banks help engineers accommodate a wide range of frequency bands and achieve greater integration while miniaturizing their designs.

## SWITCHED FILTER BANKS

- **Combine** switches and filters into a single, integrated module.
- Integration **eliminates** circuit transitions, improving insertion loss, flatness, VSWR, and overall performance.
- Internal channelization **enhances** signal rejection and isolation.
- Compact design **saves board space**, making them ideal for space-constrained applications.
- **Customizable:** including filter type, number of channels, and power handling.



## APPLICATIONS

Switched filter banks are widely used where multiple frequency bands must be accessed or interference must be minimized.

- **RF Communication Systems**
  - Multi band systems
- **Electronic Warfare (EW)**
  - Adaptable to mission and environment
- **Broadband Receivers**
  - Preselection in broadband systems
- **Test and Measurement**
  - Automated test setups

Size	Size is depended on frequency range and number of channels. Typical size for a 4-channel SFB would be less than 1.5" x 1.5" square. Reference design is 1.4"x1.4" square.
Frequency range	DC-40GHz+ (Contact us for higher frequency options)
Surface mount	BGA attach or direct solder surface mount
I/O	BGA 0.45mm ball pitch (collapsing) supporting up to 40GHz
General capabilities	<ul style="list-style-type: none"> <li>• Solder surface mount</li> <li>• Fully shielded</li> <li>• -40°C to +105°C Operating range</li> </ul>