

## Program and System Support

In the Air  
On the Sea  
On Land

### Experience

Microwave Applications Group (MAG) became a California corporation in 1969 to support electronically scanning antennas (ESAs) and other technologies using electronic steering and routing of RF signals. MAG develops ferrite-based components and subsystems, and other RF components and assemblies, to bring ESA systems and other RF devices to reality.

### Expertise

Production-quantity deliveries of components are provided economically, with good repeatability of outcome, optimized for each unique system application. Designs are leveraged to fulfill new needs, while remaining faithful to proven ferrite-based technology. We have also used our experience to fulfill Diminishing Manufacturing Sources and Material Shortages (DMSMS) requirements, and we're equipped to apply our expertise to other RF technologies.

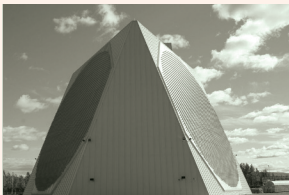
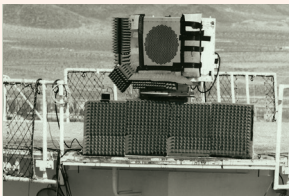
### Solutions

MAG has provided, and continues to provide RF solutions for many well-known programs deployed on land, on the sea, and in the air, and provides devices and services for military, commercial, aerospace, government, and research applications. Microwave Applications Group is honored to support many programs around the world, especially those deployed in the defense of United States and allied interests, and we take commitment to our customers seriously.

Timelines are provided on the reverse side for MAG's program and system support over the decades.



**MICROWAVE  
APPLICATIONS  
GROUP**



# Program and System Support

Decade	70s	80s	90s	00s	10s	20s
	A	A	A	A	A	A
		A	A	A	A	A
				A	A	A
	A	A	A	A	A	
		L	L	L		
					L	L
					L	L
		A	A			
			L	L		
			A	A		
		L	L	L	L	
			L	L		
		L	L			
		L	L			
		L	L			
			L	L	L	L
			S	S	S	
				S	S	S
			S	S	S	S
			L			
			S			
	L	L	L			
		A	A			

Key: A=Air L=Land S=Sea

## Sample of programs supported by MAG as OEM:

- APQ-164 B-1B ORS
- APQ-181 B-2
- APS-143 CP-140 Imaging
- APY-1/2 E-3 AWACS
- AR320 3D Air Defense
- ARTS-V1 / CLPS
- ARTS-V2
- ASARS-2 Synthetic Aperture
- ARSR-4 FAA Long Range
- ASTOR
- DWSR-2501C Doppler Weather
- Global Hawk Synthetic Aperture
- I-15/23 Reflectarray
- I-30 Simulator
- MPN-14K Landing Control
- PAAS Test Range
- Princeton Plasma Physics Laboratory
- RAC 3D Air Defense
- Skyshield 35 Air Defense
- Smart-L 3D Air Defense
- SPN-35C Approach Control
- SPQ-9B Surveillance / Tracking
- TPAAS Test Range
- TRS-3D Multimode
- TRS22XX 3D Air Defense
- ZPQ-1 Predator TESAR

## MAG DMSMS program support:

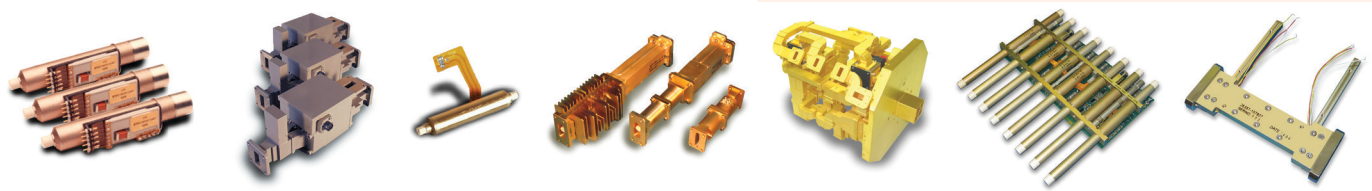
- MPQ-64 Sentinel SHORAD
- APY-1/2 E-3 AWACS
- BMEWS / PAVE PAWS
- HAWK
- SPN-35C Approach Control
- MSQ-T43 MTE System

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## Products

The following are included in MAG's product line:

- Ferrite Phase Shifters • Waveguide Switches
- RF Switches • Circulators • Isolators • Rotators
- Resolvers • Variable Power Dividers
- Waveguide Assemblies • Electronic Drivers
- Beam Steering Computers • Antenna Subsystems
- Attenuators • Waveguide Feeds
- Waveguide Horns • Rotary Joints
- Cable Assemblies



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