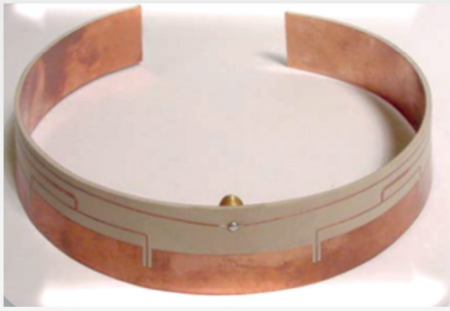
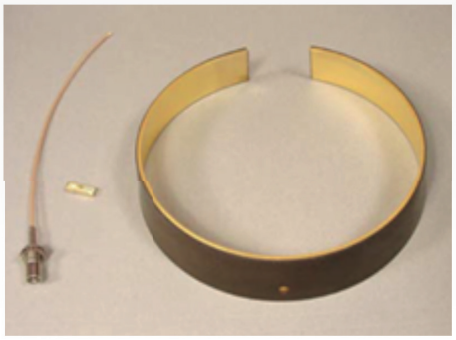
ANTENNA RESEARCH ASSOCIATES

Weapons Datalink Antennas - Wraparound

SI2's weapons datalink and communications antennas provide solutions for different weapons platform applications and fall into two families — omnidirectional, low-gain wraparound antennas and directional, higher-gain Substrate Integrated Waveguide (SIW) antennas. SI2's low-gain wraparound antennas are scalable in frequency and adaptable to various platforms. They have demonstrated the ability to survive setback shock levels of up to 35,000 g, and are capable of operating in extreme aerothermal heating environments.





Antenna Type	Wraparound
Application	Datalink/Comms/Telemetry
Frequency	Scalable from UHF through Ka-band
Polarization	Linear or circular

Features

- Extremely low profile, conformal form factor
- Multiple RF connector options

Specifications	
Operating Frequency	UHF through Ka-band
Bandwidth	10% typical
VSWR	2:1 max typical
Gain	+2 dBi typical
FoV (fore and aft)	Omnidirectional with null
Size/Weight	Commensurate with frequency

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