

# HSA-0178

## High-Band Circular Spiral Antenna

### DESCRIPTION

The HSA-0178 is a medium-power circular spiral antenna optimized for frequencies from 1000 MHz to 6000 MHz.

This antenna is optimized for vehicular operations in harsh environments. It provides wide bandwidth, broad beamwidth, and high RF efficiency in a compact and extremely rugged chassis.

Applications include signal intelligence (SIGINT) and wideband applications up to 20 W.



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### SPECIFICATIONS

#### ELECTRICAL

Frequency Band	1000 MHz to 6000 MHz
VSWR	< 2.0 : 1
Polarization	Right Hand Circular Left-Hand Circular (Upon Request)
Gain	+1 dBiC to +8 dBiC
Power	20 Watts CW
Ground Plane	Ground Plane Independent
Connector	SMA Female

#### ENVIRONMENTAL

Shock	MILSTD 810G, 40G
Vibration	MILSTD 810G
Operational Temp.	-35°F to +131°F (-37.2°C to +55°C)

#### MECHANICAL

Weight	2.25 lbs (1 kg)
Dimensions	9.19" L x 9.19" W x 2.66" H (23.34 cm L x 23.34 cm W x 6.76 cm H)
Mounting	Available Upon Request
Finish (Default)	FED-STD-595 33446 (Tan 686A)

#### MODEL NUMBERS

Black Color	HSA-0178-B
White Color	HSA-0178-W
Green 383 Color	HSA-0178-G
Aircraft Gray Color	HSA-0178-AG