

Choke Ring Antenna **ARF-AS1-3D-FS**

IGS Naming: ARFAS13DFS ARFS



- The South ARF-AS1-3D-FS provides a stable phase center offsets at sub-millimeter level to guarantee your reference station an excellent tracking performance.
- 3D choke rings design inside the antenna helps achieve an outstanding multipath rejection performance.
- High-gain design for low elevation tracking enhances signal availability for more satellites.
- Ultralow line loss on signal transmissions, enables connecting cable extend more than 100 meters carrying undamaged signals.
- Fully sealed core components, waterproof and dustproof design, make it withstand severe conditions for continuous work in the field

CHOKE RING ANTENNA

Specification

Minimum tracking elevation	0°
Practical tracking elevation	5°
Frequency Range	GPS: L1C/A, L2E, L2C, L5
	GLONASS: L1C/A, L1P, L2C/A, L2P
	BDS: B1,B2,B3
	GALILEO: E1, E2, E4, E5a, E5b, E6
Supported SBAS signal bands	WAAS/EGNOS/MSAS/GAGAN/GAGAN
Phase-center accuracy	2mm or better
Phase-center repeatability	<1mm
Maximum phase-center eccentricity	2mm
Antenna gain	65dB
LNA features	Advanced filtering to reduce interference by high power out-of-band transmitters
LNA gain	40±2dB TYP
Supply voltage	3.0V DC to 6.0V DC, 5V Norm
Supply current (maximum)	65mA
Delay	5x10 ⁻⁹ s
Element type	Microstripe antenna
Polarization	RHCP
Axial ratio	2dB at Zenith
Voltage standing wave ratio	2.0 maximum
Left-hand circular polarization	20dB
Multipath mitigation technologies	LHCP rejection and 1/4 wave choke ring ground plane
Ground plane design	1/4 wave choke ring
Coaxial connector	TNC female
Shock rating	1 m (3.28 ft) drop
Vibration rating	4.3 GRMS, random vibration profile; Z axis only
Humidity	95%
Operating temperature	-40 °C to +85 °C (-58 °F to 185 °F)
Storage temperature	-40 °C to +85 °C (-85 °F to 185 °F)
Mounting thread	5/8"-Thread for Pole mounting.
IP-Class	IP-67
Dimension	φ368*235mm
Weight	6.3kg (13.6 lb.)

