

C12-12019

RFID UHF antenna



C12-12019 is a **12dBi UHF RFID antenna available in right and left circular polarization**. It is suitable for many applications: RFID logistics tracking, warehouse management, door control system...

Key features

- UHF RFID
- Gain 12dBi
- Right or left circular polarization
- SMA-Female connector

Applications

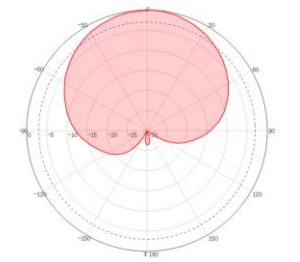
- RFID logistics tracking
- Warehouse management
- Door control system
- Marathon runway management

SMA-Femelle connector

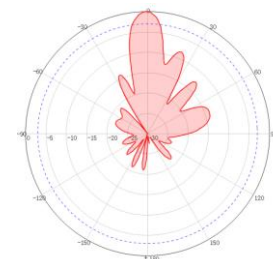


Functional specifications

Type	UHF
Frequency	EU: 865-869MHz US: 902-928MHz
Gain	12dBi
Beam width	Hor: 75° Ver: 25°
Polarization	Circular right (standard) Circular left
VSWR	≤ 1.4
F/B Ratio	≥ 20
Input Impedance	50Ω
Maximum power	50W
Lightning protection	DC Ground
Antenna connector	SMA-Female



H-Plane



E-Plane

Physical specifications

Dimensions	1200*190*20mm
Net weight	3.5kg
Packing size	130*20*2.5cm
Gross weight	3.8kg
Radome material	Organic Glass
Radome colour	Black

Environment and industry compliance

Protection grade	IP54
Use	Indoor
Operating Temperature	-40°C ~ +70°C

V2.2

Non-contractual data sheet

AXEM Technology

11, rue Auguste Perret - ZAC Europarc - 94042 Créteil Cedex France

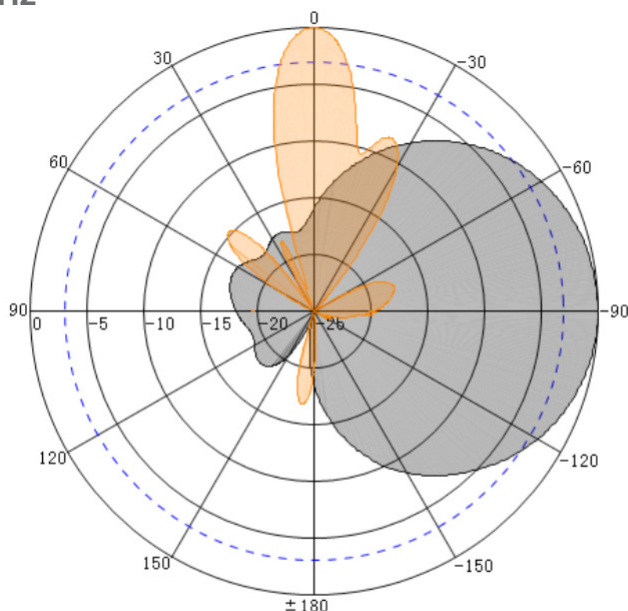
Tél. : +33 (0)1 41 94 11 85 - Fax. : +33 (0)1 49 56 91 52 - info@axemtec.com - www.axemtec.com

C12-12019

RFID UHF antenna

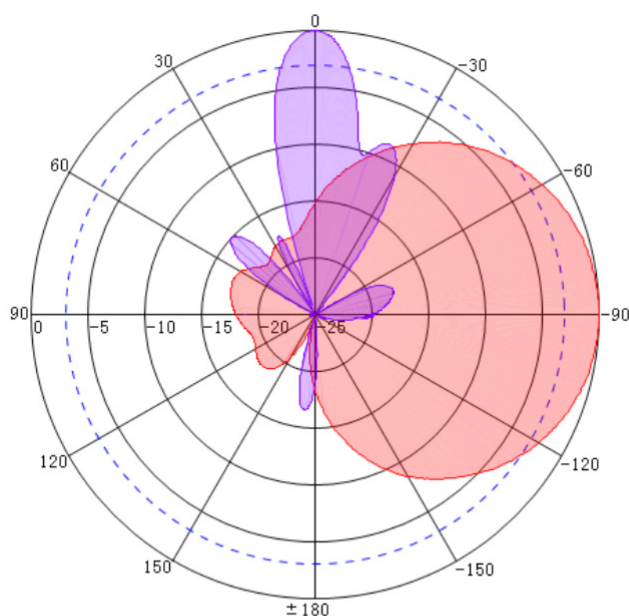
Radiation patterns

1). 13.29dBi @865MHz



Freq	Date	Face	Max	HPBW (3dB)	FBR	ComGain	Direction	Gain
865	2019/11/9	E	1.64	70.70	17.12	11.17	8.68	
865	2019/11/9	H	1.96	15.51	16.77	11.49	17.90	13.29

2). 13.34dBi @867MHz



Freq	Date	Face	Max	HPBW (3dB)	FBR	ComGain	Direction	Gain
867	2019/11/9	E	1.42	71.18	17.17	11.07	8.62	
867	2019/11/9	H	1.52	15.69	16.57	11.17	18.07	13.34

V2.2

Non-contractual data sheet

AXEM Technology

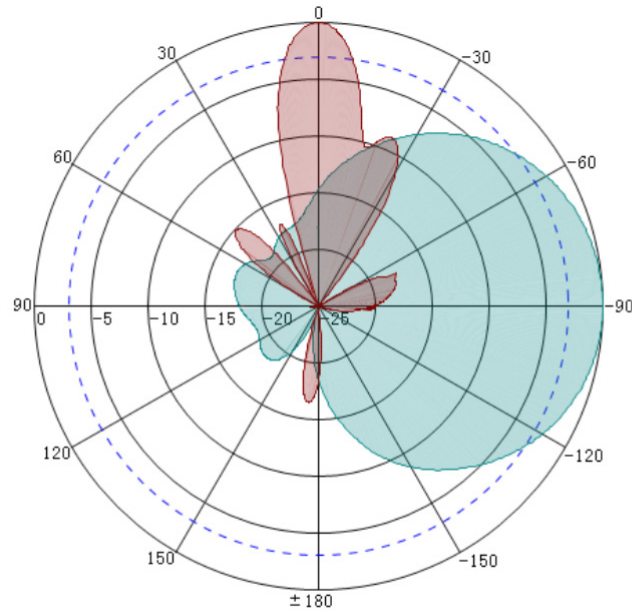
11, rue Auguste Perret - ZAC Europarc - 94042 Créteil Cedex France

Tél. : +33 (0)1 41 94 11 85 - Fax. : +33 (0)1 49 56 91 52 - info@axemtec.com - www.axemtec.com

C12-12019

RFID UHF antenna

3). 13.38dBi @868MHz



Freq	Date	Face	Max	HPBW (3dB)	FBR	ComGain	Direction	Gain
868	2019/11/9	E	1.34	71.09	17.23	11.04	8.59	
868	2019/11/9	H	1.35	15.63	16.48	11.05	18.16	13.38