

AN-09

Planar antenna 868 MHz

Datasheet



Description

Planar antenna 868 MHz for IQRF transceivers.

Features

- Directional
- Long range
- SMA connector
- Cable 0.3 m or 3 m

Applications

- IQRF transceivers
- RF band 868 MHz (EU and other countries)



RF parameters

Typical values

Frequency	824 MHz to 896 MHz
Gain	6.7 dBi
Polarization	Vertical (when the antenna is mounted vertically)
Beam with -3dB	Horizontal 60° Vertical 50°
VSWR (Voltage standing wave ratio)	≤ 1.5 (for all RF channels within the 868 MHz band)
Input impedance	50 Ω
Max. power	100 W

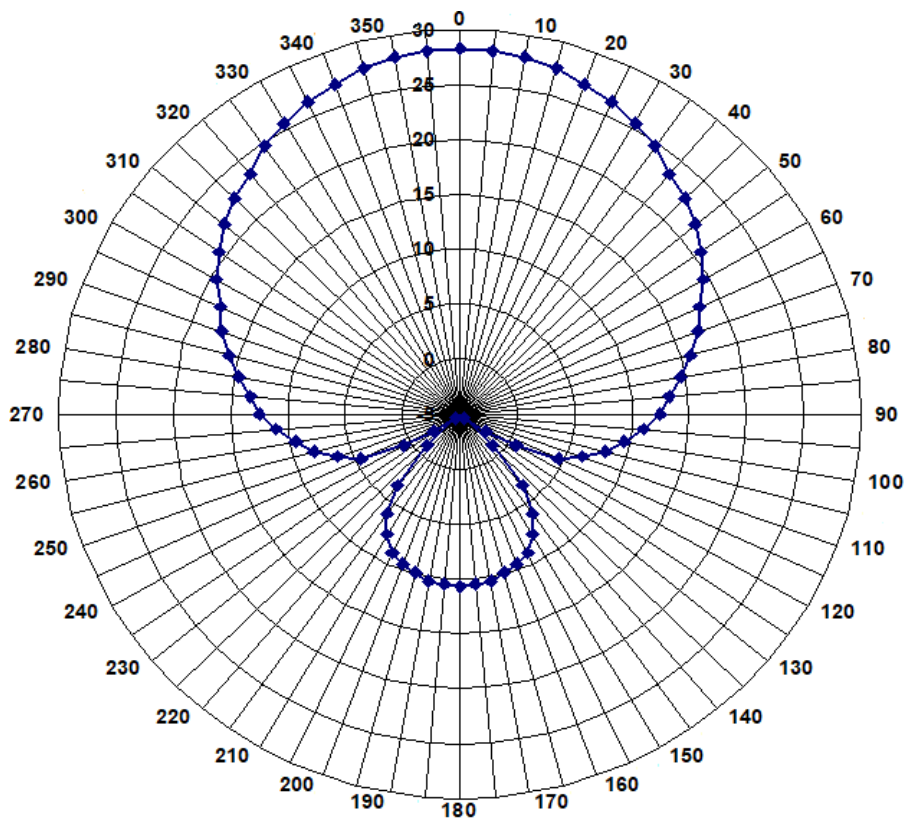


Diagram 1 - Radiation patterns. Effective radiated power in dBm for TR-72DC, setRFpower(7) vs. angle. 0° corresponds to direction perpendicular to the antenna mounting base plane.

Mechanical parameters

Terminal	SMA
Dimensions	240 mm x 215 mm x 60 mm
Radome material	ABS
Radome color	White
Weight	1080 g

All parameters are for guidance only and should be considered as typical.

Product information

Ordering code

AN-09	Planar antenna 868 MHz, 0.3 m cable
AN-09(3m)	Planar antenna 868 MHz, 3 m cable

Recommended cables

CAB-U.FL/SMA-05	Antenna cable with SMA and U.FL connectors, 5 cm
CAB-U.FL/SMA-15	Antenna cable with SMA and U.FL connectors, 15 cm
CAB-U.FL/SMA-50	Antenna cable with SMA and U.FL connectors, 50 cm
CAB-U.FL/SMA-100	Antenna cable with SMA and U.FL connectors, 100 cm
CAB-U.FL/SMA-xxx	Antenna cable with SMA and U.FL connectors, custom length

Document history

180730	VSWR details added. Typing bug in VSWR corrected.
170918	<i>Diagram 1</i> corrected.
170913	Chapter <i>Recommended cables</i> revised. <i>Diagram 1</i> added.
150821	3 m cable option added.
121120	First release.

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