

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)



<i>RF parameters</i>	<i>Typical values</i>
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°
WSR	≤ 1.5
Input impedance	50 Ω
Max. power	100 W

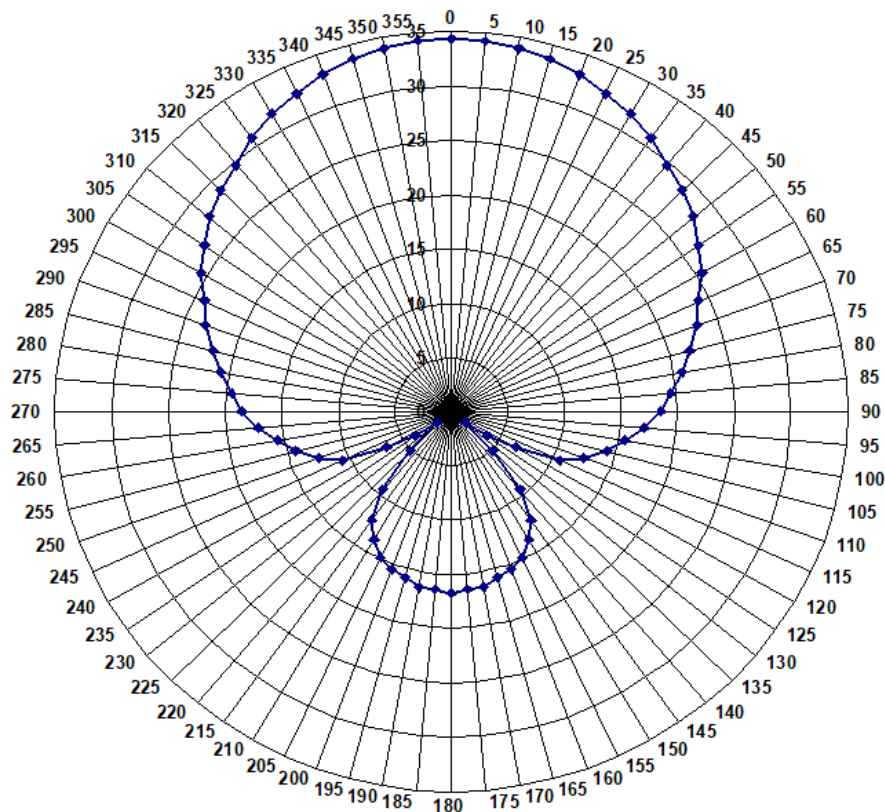


Diagram 1 - Radiation patterns. Effective radiated power in dBm for TR-72DC, setRFpower(7) vs. angle. 0° corresponds to direction perpendicular to the antenna mounting base plane.

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

170913	Chapter <i>Recommended cables</i> revised. <i>Diagram 1</i> added.
150821	3 m cable option added.
121120	First release.

Sales and Service

Corporate office

IQRF Tech s.r.o., Prumyslova 1275, 506 01 Jicin, Czech Republic, EU

Tel: +420 493 538 125, Fax: +420 493 538 126, www.iqrf.tech

E-mail (commercial matters): sales@iqrf.org

Technology and development

www.iqrf.org

E-mail (technical matters): support@iqrf.org

Partners and distribution

www.iqrf.org/partners

Quality management

ISO 9001 : 2009 certified

Complies with directives 2011/65/EU (RoHS) and 2012/19/EU (WEEE).



Trademarks

The IQRF name and logo are registered trademarks of IQRF Tech s.r.o.

PIC, SPI, Microchip and all other trademarks mentioned herein are property of their respective owners.

Legal

All information contained in this publication is intended through suggestion only and may be superseded by updates without prior notice. No representation or warranty is given and no liability is assumed by IQRF Tech s.r.o. with respect to the accuracy or use of such information.

Without written permission, it is not allowed to copy or reproduce this information, even partially.

No licenses are conveyed, implicitly or otherwise, under any intellectual property rights.

The IQRF® products utilize several patents (CZ, EU, US).

On-line support: support@iqrf.org



Smarter Wireless. Simply.