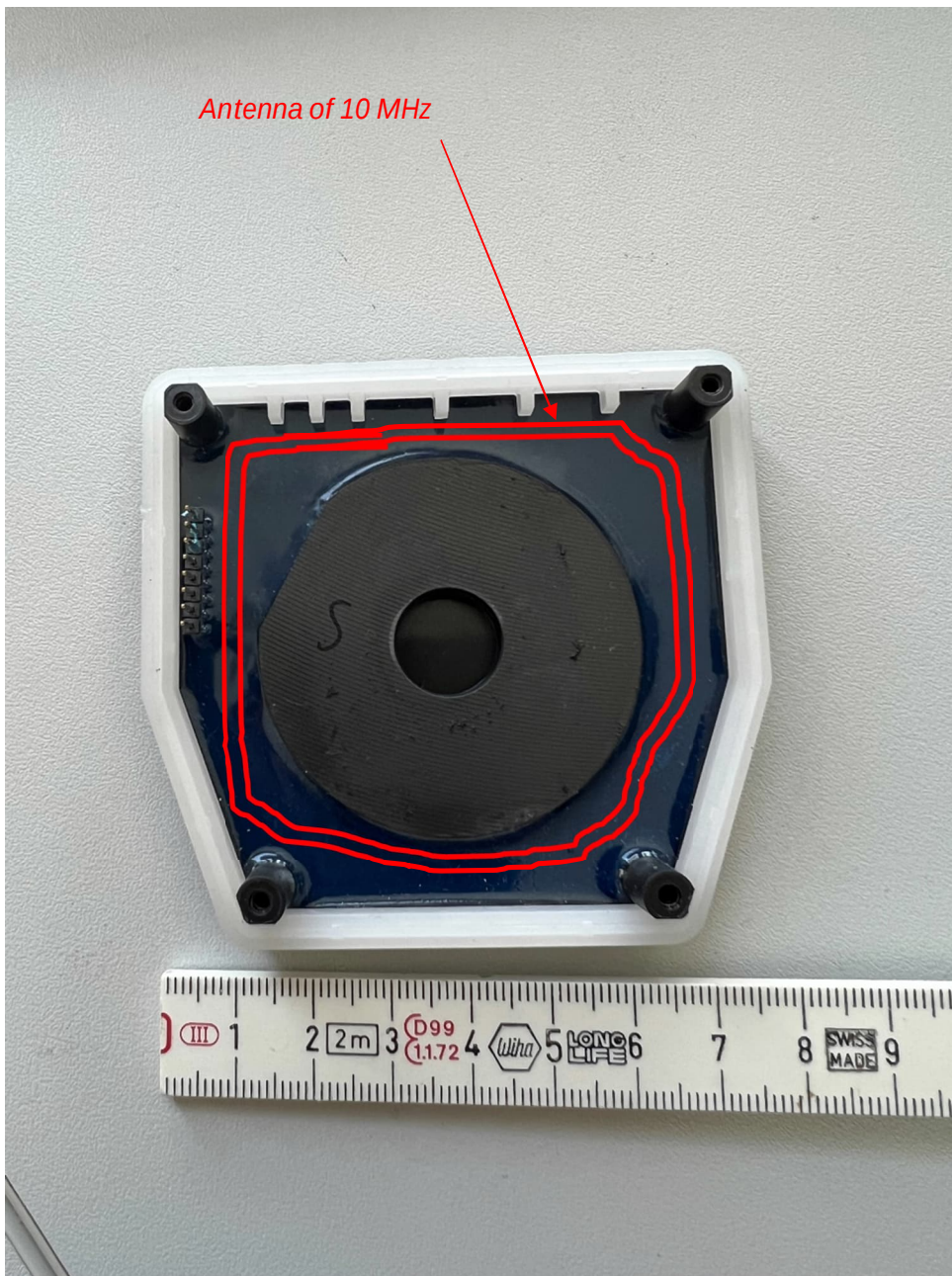


1 Information on internal antennas NEARFI PD 2A ETH R

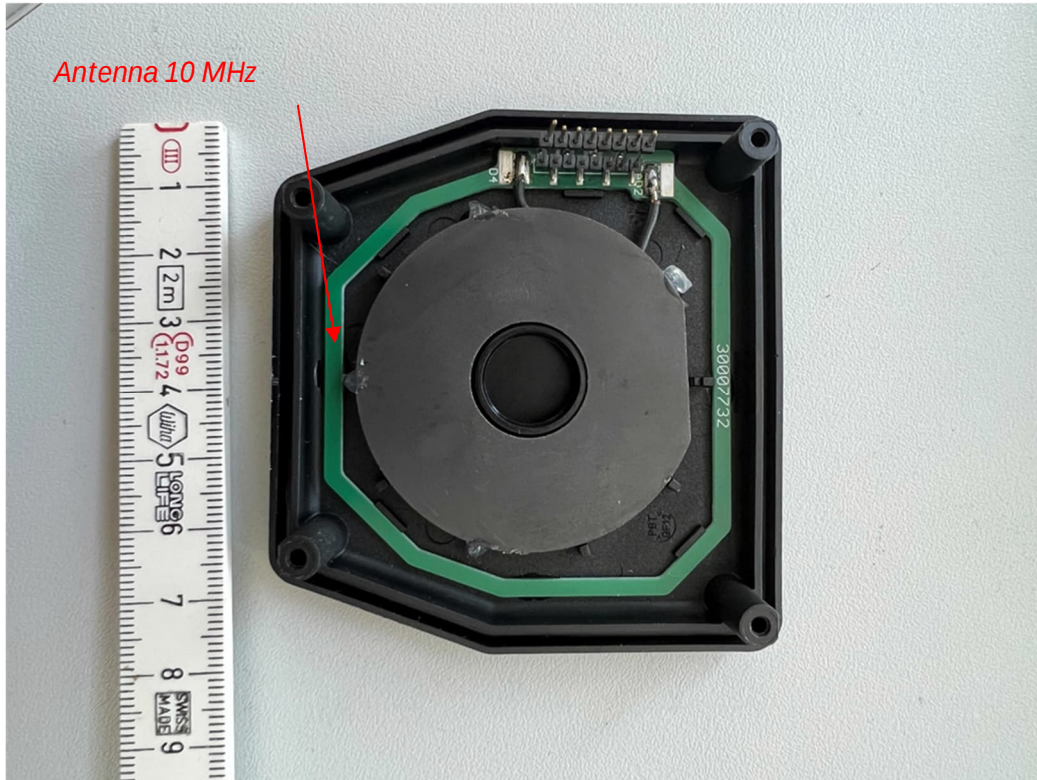
1.1 Part for Power transfer

1.1.1 10MHz Feedback channel

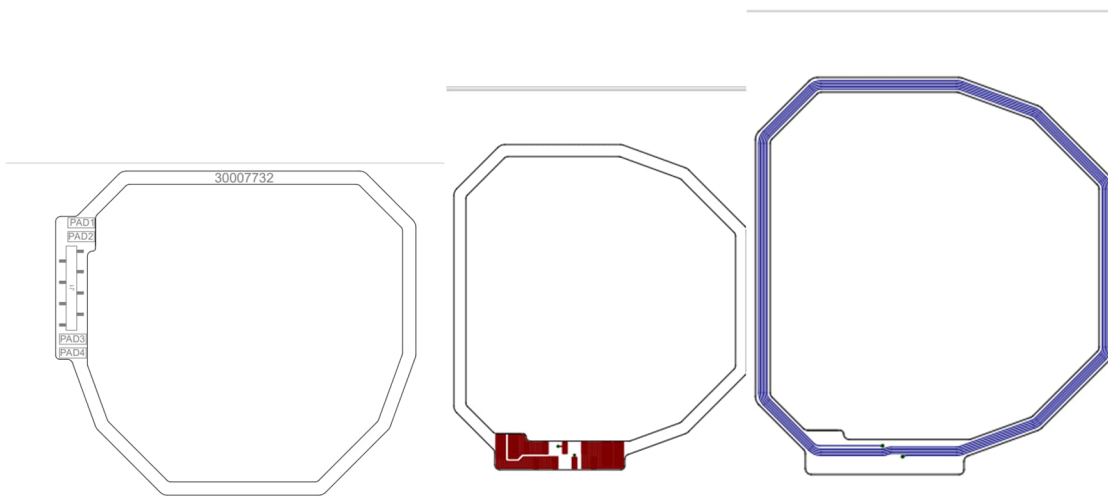
Lid with potting



Lid without potting



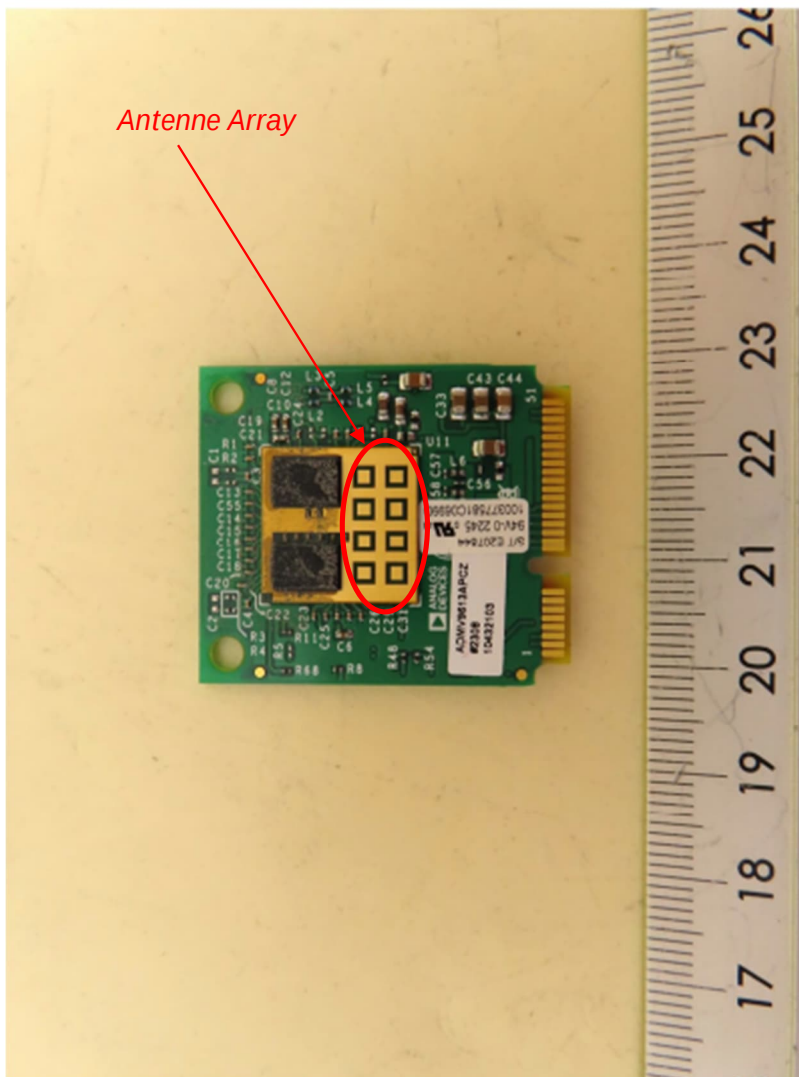
PCB 10MHz Antenna



1.2 Part for Data transfer

Radio Module 60GHz

ADMV9621



Data Sheet

ADMV9621

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS, RADIO LINK

Table 4. Electrical Specifications, Radio Link

Parameter	Test Conditions/Comments	Min	Typ	Max	Unit
MAXIMUM BIT RATE		100			Mbps
MODULATION	OOK		OOK		
BIT ERROR RATE	10 sec integration		1e-12		
LATENCY	Bitwise		10		ns
LINK RANGE		1	2.5		cm
RADIATION APERTURE DIAMETER	Center of patch antenna, free of metal		1.4		cm
FREE SPACE ABOVE PATCH ANTENNA			2.5		mm
MAXIMUM ROTATION RATE			200		rpm
PATCH ANTENNA GAIN, Rx AND Tx			12		dBi
ANTENNA HALF POWER BEAMWIDTH	See Figure 18				
Theta Plane			20		Degrees
Phi Plane			15		Degrees

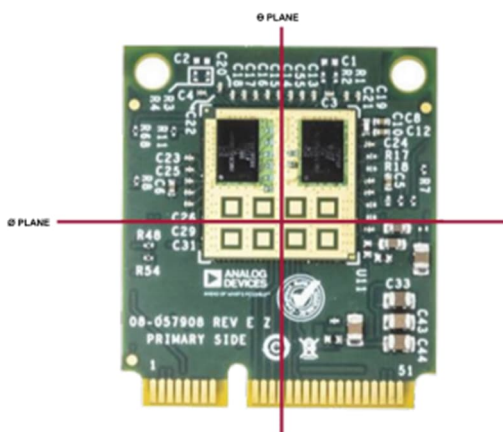


Figure 18. Antenna Radiation Pattern Angle Definitions