

Specifications of Near Field Ant.

MESSRS. (주)아이디로

ITEM : Near Field Antenna

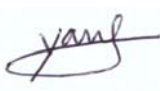
PART NAME : MNFA1010-900L

MODEL NAME

FEATURES : Antenna has strong near-field performance for
reading short-distance.
Low far-field gain for reading in antenna dimension.
UHF band to enable global operation.

DATE : February 24, 2021

QUANTITY : pcs

SUPPLIER : MAC technologies Inc.		
DRAWN	CHECKED	APPROVED
		

 **mac technologies**

615, Cheongju Techno S Tower, 530, Jikji-daero,

Heungdeok-gu, Cheongju-si, Chungbuk, KOREA, 28578

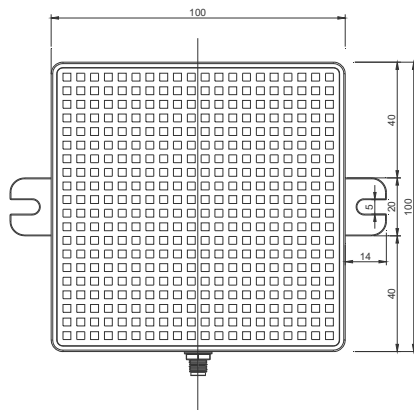
Tel : +82 43 275 2485 Fax : +82 43 275 2487

Title	RFID Near Field Ant. Preliminary Specification
Document Number	MACQM730-05-21XXX
Date	February 24, 2021

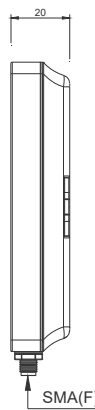
1. Electrical Specifications.

NO.	Parameter	Spec.	Unit	Remark
1	Center Frequency	919.0	MHz	
2	Near Field Intensity	-10.0	dBA/m	@ Center of ant. 2 cm from radome, 30 dBm input power
3	Far Field Gain	-20	dBi	
4	Polarization	Linear		
5	VSWR	2.0 : 1 max.	dB	
6	Impedance	50	Ohm	
7	Input Power	30	dBm	

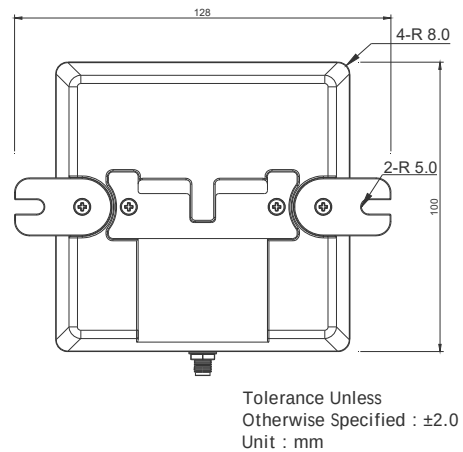
2. Mechanical Dimensions. (unit : mm)



[TOP VIEW]



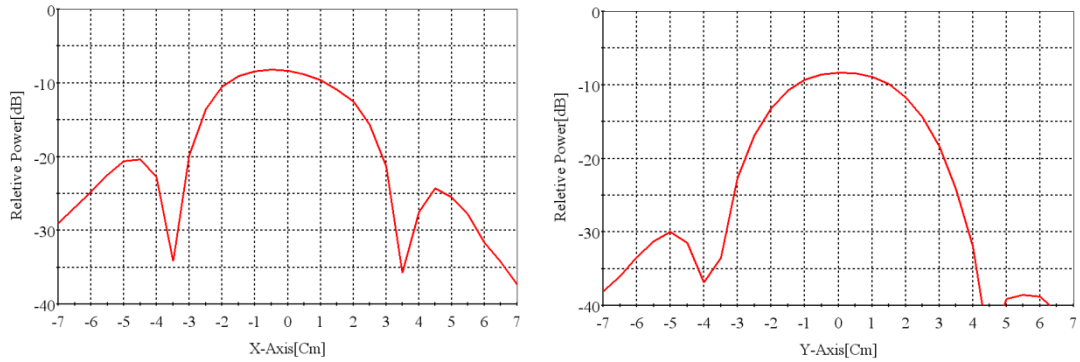
[SIDE VIEW]



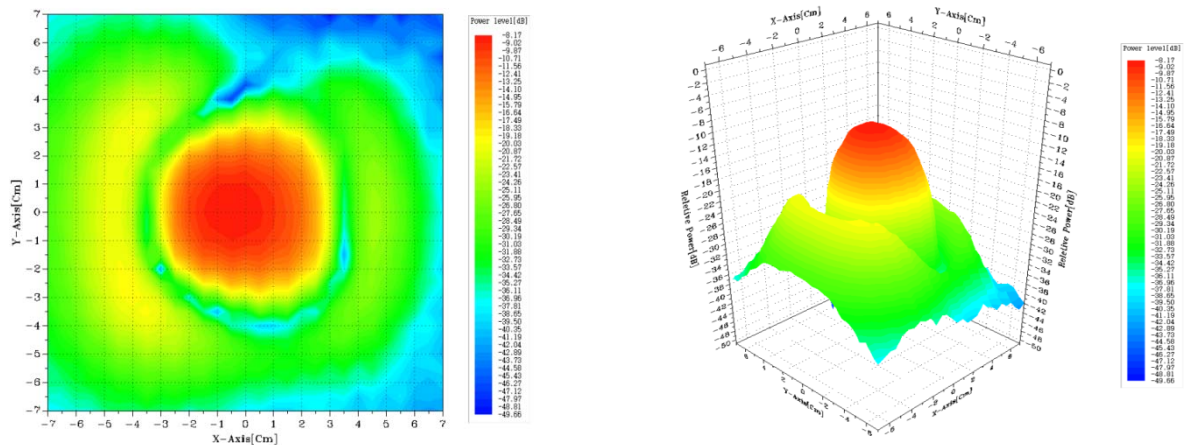
[BOTTOM VIEW]

Title	RFID Near Field Ant. Preliminary Specification
Document Number	MACQM730-05-21XXX
Date	February 24, 2021

3. Near Field Intensity Plots. (dBA/m with 30dBm input power)



1D Power distribution at Z=2 cm from Radome

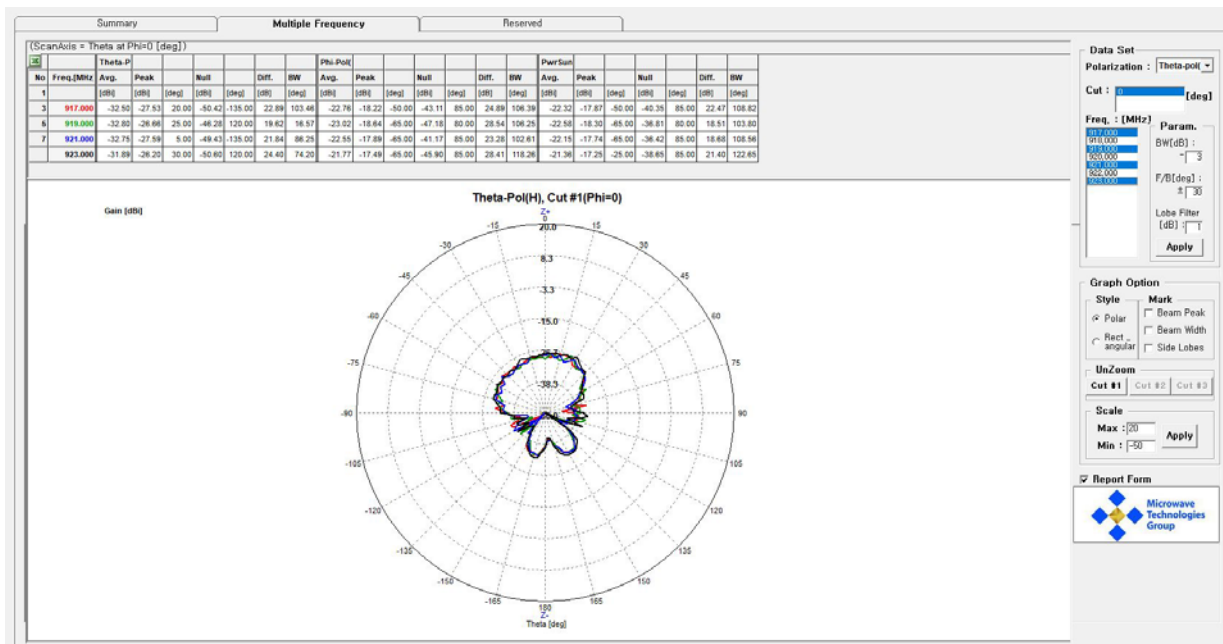


2D and 3D Power distribution at Z=2 cm from Radome

Title	RFID Near Field Ant. Preliminary Specification
Document Number	MACQM730-05-21XXX
Date	February 24, 2021

4. Radiation Patterns.

4-1. H-Pol. (Frequency 917.0, 919.0, 921.0, 923.0 MHz)



4-2. V-Pol. (Frequency 917.0, 919.0, 921.0, 923.0 MHz)

