



PCB Antenna

Compact Wideband Omnidirectional UHF Antenna for TV White Space Cognitive Radio Application

CONTENTS:

- PAGE1 - CONTENTS
- PAGE2 - CHARACTERISTIC

Version Revision:
v0.1 - 18.04.2017.

DESIGN CONSIDERATIONS

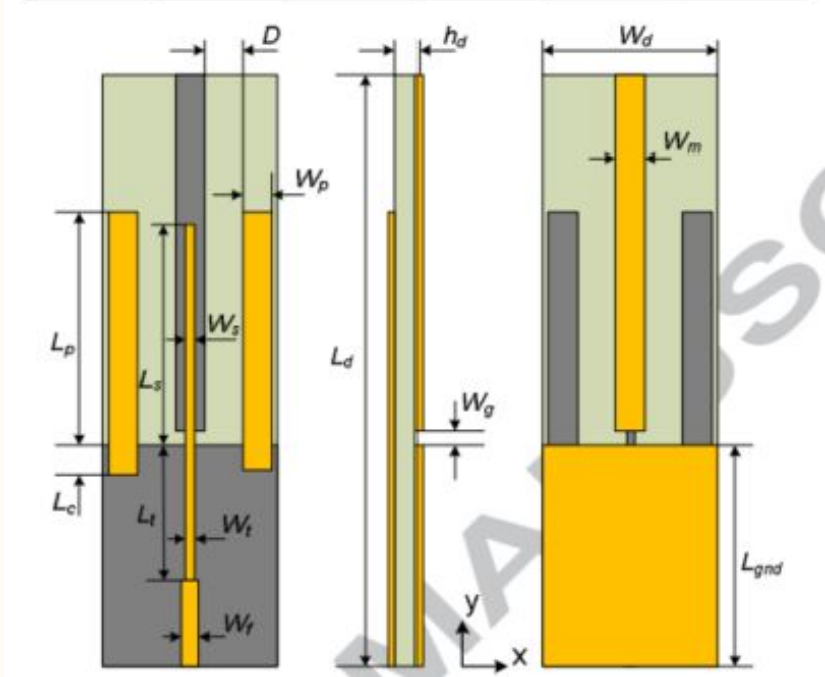
DESIGN NOTE:
Example text for informational
design notes.

DESIGN NOTE:
Example text for critical
design notes.

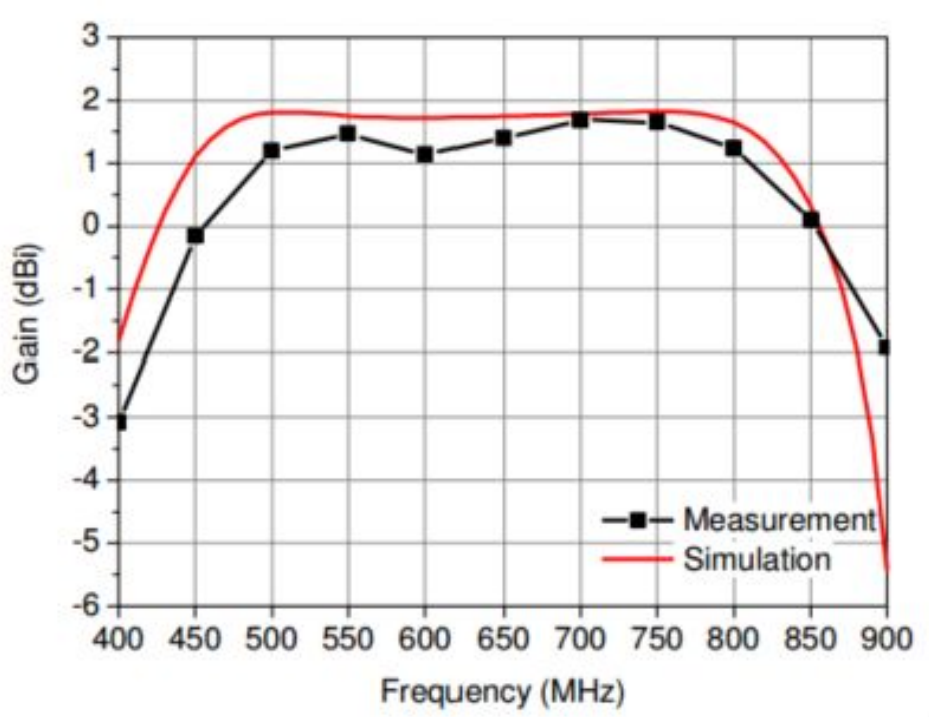
LAYOUT NOTE:
Example text for critical
layout guidelines.

Irnas		www.irnas.eu	
Title: PCB_Project.PrjPcb			
Page Contents: PAGE1 - CONTENTS.SchDoc			
Size:	DWG NO		Revision: v0.1
Date: *			Sheet 1 of 2

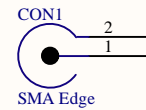
L_d	261	W_m	5	W_t	0.7
W_d	30	L_c	3	W_f	1.6
L_{gnd}	100	L_s	85	W_g	1
L_p	90	W_s	0.7	D	7
W_p	5	L_t	61	h_d	0.8



Configuration of the proposed antenna



Radiation gain in H-plane



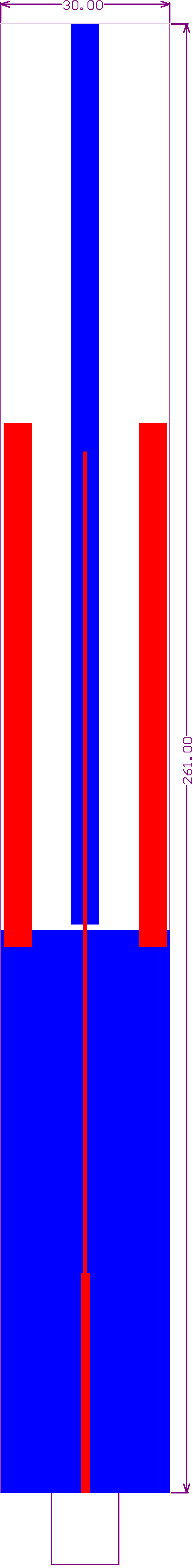
Connector

DESIGN NOTE:
PCB is without overlay and solder layers

DESIGN NOTE:
Board thickness is 0.8 mm

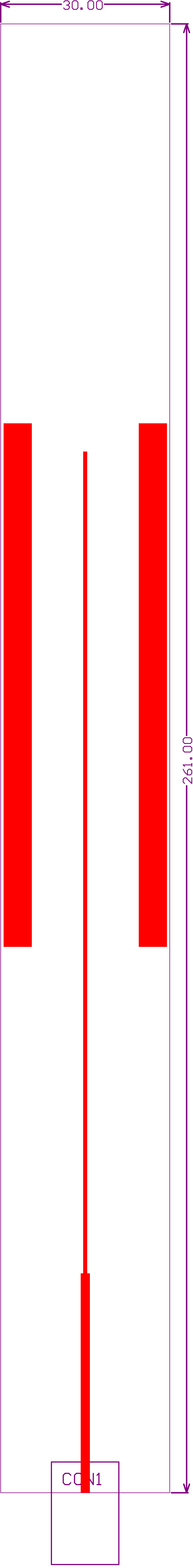
LAYOUT NOTE:
SMA Connector need to on the board edge.

Irnas		www.irnas.eu	
Title: PCB_Project.PrjPcb			
Page Contents: PAGE2 - CHARACTERISTIC.SchDoc			
Size:	DWG NO		Revision: v0.1
Date: *	Sheet 2 of 2		



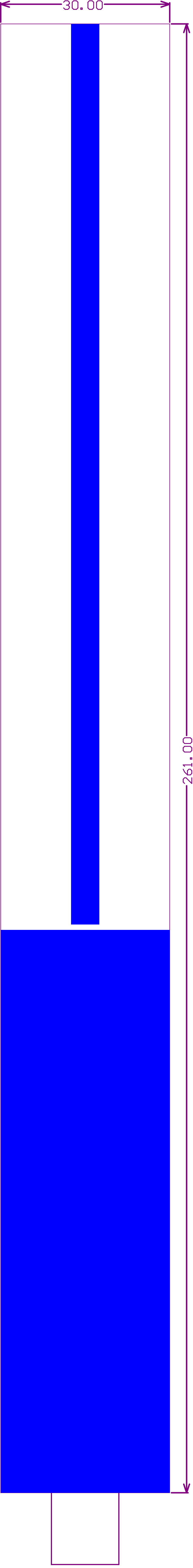
Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Layer	Copper	0.036mm		
2	Dielectric 1	FR-4	0.254mm	4.2	
3	Bottom Layer	Copper	0.036mm		

Dielectric1 thickness must be 0.8 mm
PCB is without overlay and solder layers



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Layer	Copper	0.036mm		
2	Dielectric 1	FR-4	0.254mm	4.2	
3	Bottom Layer	Copper	0.036mm		

Dielectric1 thickness must be 0.8 mm
PCB is without overlay and solder layers



Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Layer	Copper	0.036mm		
2	Dielectric 1	FR-4	0.254mm	4.2	
3	Bottom Layer	Copper	0.036mm		

Dielectric1 thickness must be 0.8 mm
PCB is without overlay and solder layers

