

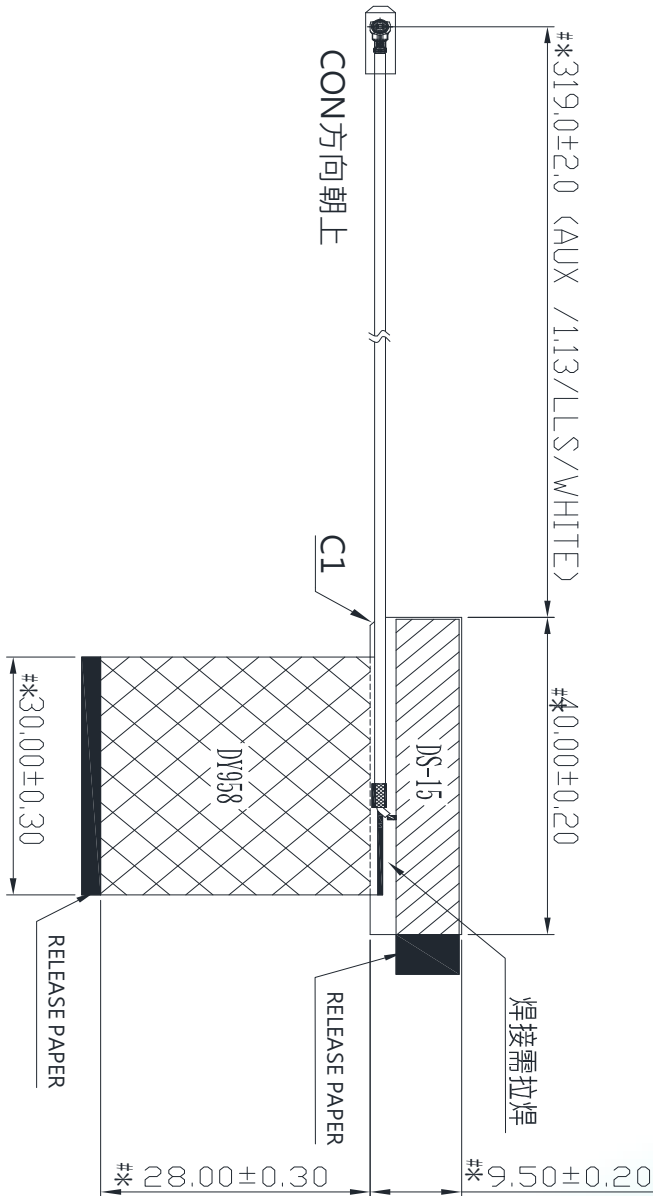
Description: BR1402 AUX ANT



Series: BR1402 AUX

ASUS P/N : 14008-05650300

PULSE P/N : TZ2486E



Features:

- WLAN Antenna
- Printed Circuit Board
- Adheres to plastic surface
- 1.13mm cable with NGFF
- RoHS Compliant

Applications:

- Notebook computer

All dimensions are in mm / inches

Issue: 2032 DRAFT RALFYE

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For more information:

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15255 Innovation Drive #100
San Diego, CA 92128
USA
Tel:1-858-674-8100

Pulse/Larsen Antennas
18110 SE 34th St Bldg 2 Suite 250
Vancouver, WA 98683
USA
Tel: 1-360-944-7551

Europe Headquarters
Pulse GmbH & Do, KG
Zeppelinstrasse 15
Herrenberg, Germany
Tel: 49 7032 7806 0

Pulse (Suzhou) Wireless Products Co, Inc.
99 Huo Ju Road(#29 Bldg,4th Phase
Suzhou New District
Jiangsu Province, Suzhou 215009 PR China
Tel: 86 512 6807 9998



Description: BR1402 AUX ANT



Series: BR1402 AUX

ASUS P/N : 14008-05650300

PULSE P/N : TZ2486E

ELECTRICAL SPECIFICATIONS

Antenna Type	PCB PIFA
Frequency	2.4-2.5GHz,5.15-5.875GHz
Nominal Impedance	50 Ω
VSWR	3:1
Radiation Pattern	Omni
Gain	Refer to gain table
Polarization	Linear
Power Withstanding	1W

MECHANICAL SPECIFICATIONS

Overall Length	40x9.5 mm
Antenna Color / Material	Black/ PCB
Connector type	See table, P3
Cable type	See table, P3
Cable length	See table, P3
Adhesive tape	HF DS15

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 ~ +85°C
Storage Temperature	-40 ~ +85°C
RoHS Compliant	Yes

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MECHANICAL DRAWING

MOD	REVISION DESCRIPTION	DATE / EDITOR	Please follow Pulse Limits for the hazardous substances (RoHS, halogens) in the document "Pulse Hazardous Substances (HS) Limits (RPG002-03)" and "Vendor Survey Questionnaire Material Composition (LOM-SAF-L0040)".	Reliability Test Spec according to WIHS75.33 (Reliability Test Working Instruction) Default test standard is Test Standard A if no definition.	
P4	PCB PATTERN & CABLE WIRE OUTER CONDUCTOR CHANGE	2022.09.21 / RJ			
P5	ADD P/N	2022.10.05 / RJ			
P6	CABLE WIRW CHANGE	2022.10.17 / RJ			
P7	CON方向變更	2022.11.10 / RJ			
P8	PCB ADD C1 & PRINTING CHANGE	2022.11.14 / RJ			
P9	PATTERN CHANGE	2022.11.15 / RJ			
P10	PATTERN & CABLE CHANGE	2022.11.16 / RJ			
P11	PATTERN & PRINTING CHANGE	2022.12.14 / RJ			
P12	PCB PRINTING ADD ASUS PN	2023.02.10 / RJ			

**-TOLERANCES-
UNLESS OTHERWISE SPECIFIED**

公差參考表

0-30	±0.2
30-50	±0.2
50-100	±0.2
100-200	±0.25
200-300	±0.3

NOTE

- 印刷字體嚴禁有無法辨識現象
- 背膠黏貼不可溢膠
- 標記"*" 記號, 為品管檢驗之尺寸
- 標記"# " 記號, 為CPK 量測尺寸

Item	Description	QTY
6	PE保護套管 PE套管, 規格?15	1
5	Cu Foil 30.0*30.0*0.13mm	1
4	PCB 40.0*9.5*0.4mm	1
3	Cable MAIN L=317.0 / 1.13 / Low Loss / WHITE (L=319.0mm)	1
2	Twin Adhesive DS-15, T=0.15mm	1
1	Connector I PEX 4代接頭	1

ASUS P/N : 14008-05650300

Pulse (Suzhou) Wireless Products Co., Ltd 99 HUIJIU RD, SUZHOU NEW DISTRICT SUZHOU 215009 P.R.CHINA WWW.PULSEELECTRONICS.COM/ANTENNAS	THIRD ANGLE PROJECTION GENERAL TOLERANCES ASSOCIATED SCALE: 1:1 DESIGNED: RJ CHECKED: CHENG APPROVED: YEN	HANDLING GENERAL TOLERANCES ISO 2768-1 P11 P10 P9 P8 P7 P6 P5 P4 MOD	P12 20230210 20221214 20221116 20221116 20221116 20221116 20221116 20221005 20220921	R1 R1 R1 R1 R1 R1 R1 R1 R1
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ITEM NAME: BR1402 AUX ANT DOCUMENT NUMBER: TZ2486E

Issue: 2032 DRAFT RALFYE

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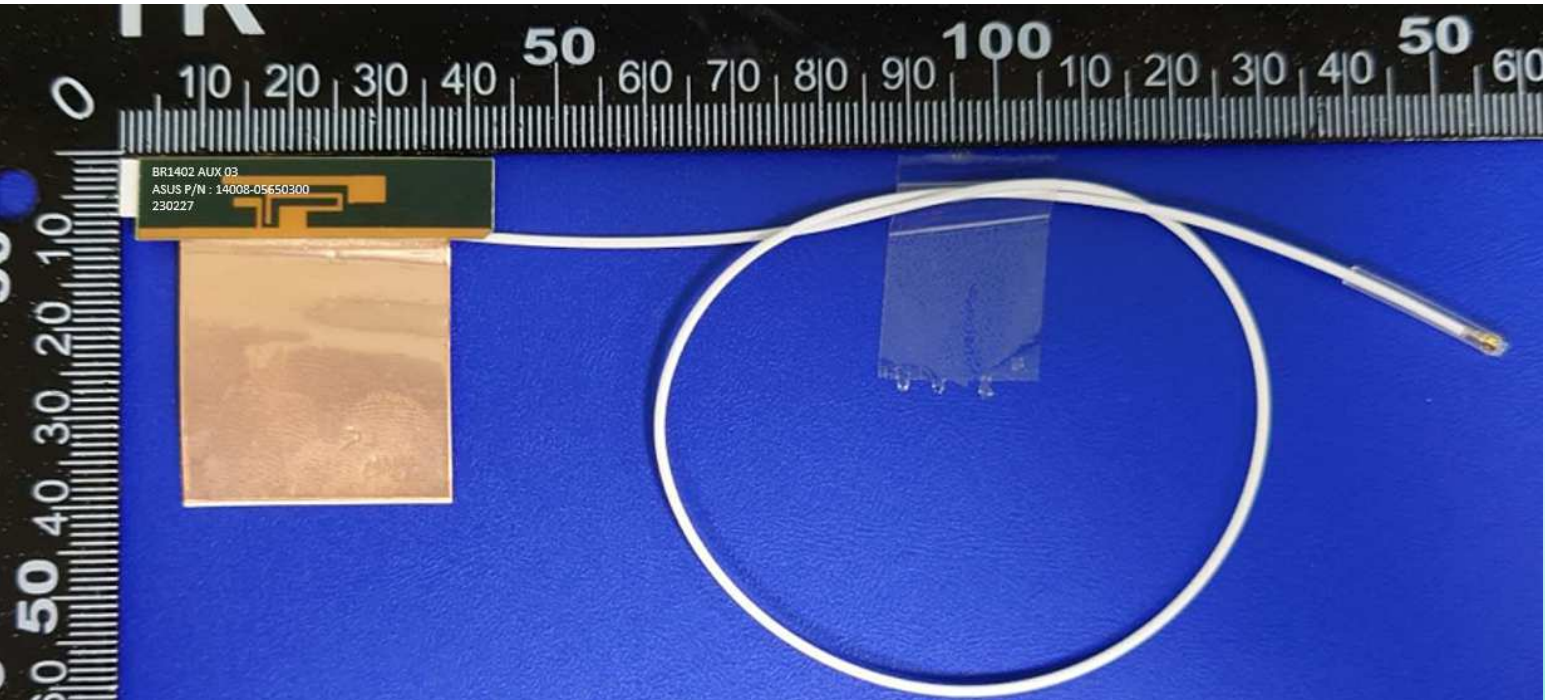
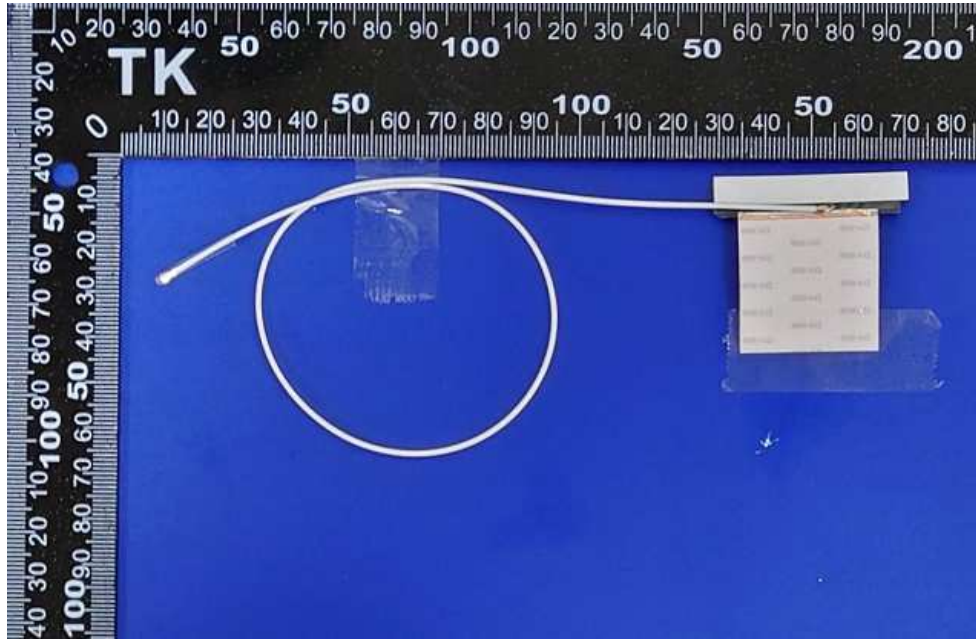


Series: BR1402 AUX

ASUS P/N : 14008-05650300

PULSE P/N : TZ2486E

ANTENNA DRAWING



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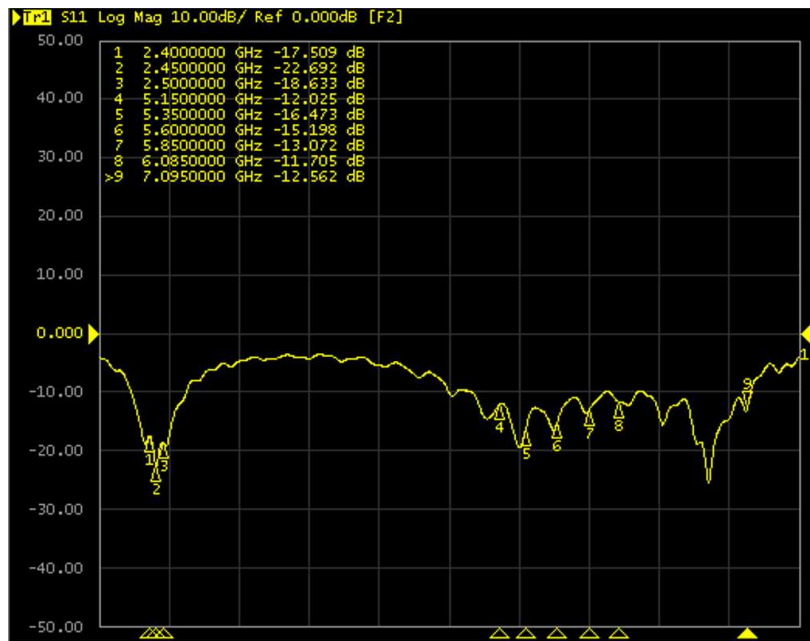
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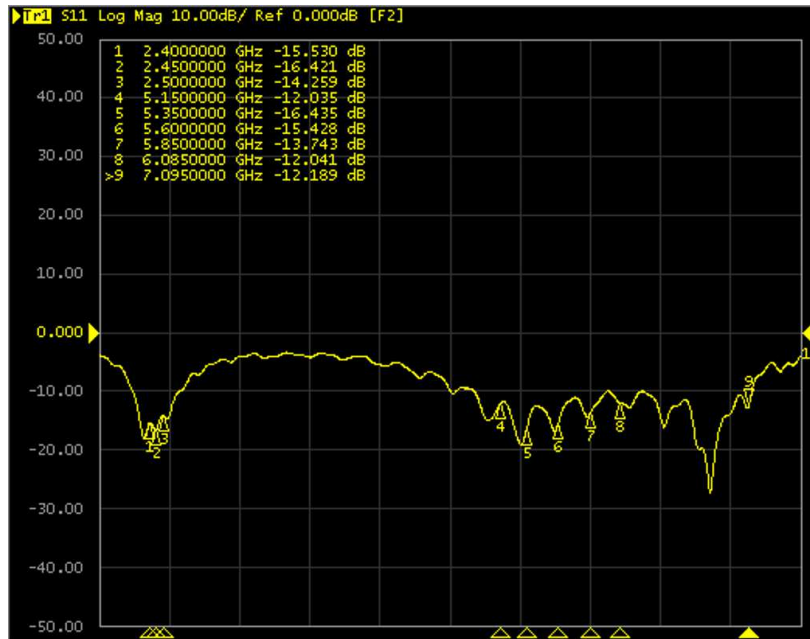
PULSE P/N : TZ2486E

TEST SETUP

NB Mode



TB Mode



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Series: BR1402 AUX

ASUS P/N : 14008-05650300

PULSE P/N : TZ2486E

EFFICIENCY

NB Mode

TB Mode

aux	Frequency	Efficiency	Gain
	2400	-3.89	2.77
	2412	-3.63	2.80
	2437	-3.31	2.84
	2462	-3.63	2.76
	2500	-3.96	2.59
	5150	-3.67	3.41
	5250	-3.73	3.29
	5350	-3.69	3.48
	5470	-3.83	4.23
	5600	-4.32	4.10
	5725	-4.59	4.11
	5785	-4.56	4.15
	5850	-4.74	4.08
	5895	-4.97	4.06
	5925	-5.44	4.31
	6125	-5.37	4.33
	6425	-5.03	4.10
	6525	-5.25	3.94
	6725	-4.54	4.17
	6875	-4.96	3.60
	6925	-5.00	3.66
	7125	-5.96	3.50

aux	Frequency	Efficiency	Gain
	2400	-4.20	2.38
	2412	-4.14	2.60
	2437	-4.13	2.56
	2462	-4.28	2.33
	2500	-3.93	2.54
	5150	-3.78	3.27
	5250	-3.73	3.24
	5350	-3.63	3.55
	5470	-4.05	4.37
	5600	-4.57	3.93
	5725	-4.84	4.04
	5785	-4.72	3.90
	5850	-4.86	4.19
	5895	-5.07	3.58
	5925	-5.53	2.95
	6125	-5.27	3.75
	6425	-5.49	3.58
	6525	-5.30	3.51
	6725	-5.42	2.76
	6875	-6.15	1.73
	6925	-6.36	1.30
	7125	-6.58	1.84

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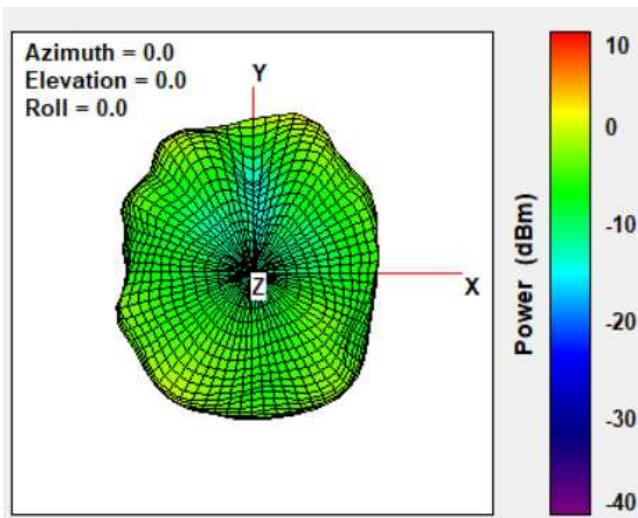
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PULSE P/N : TZ2486E

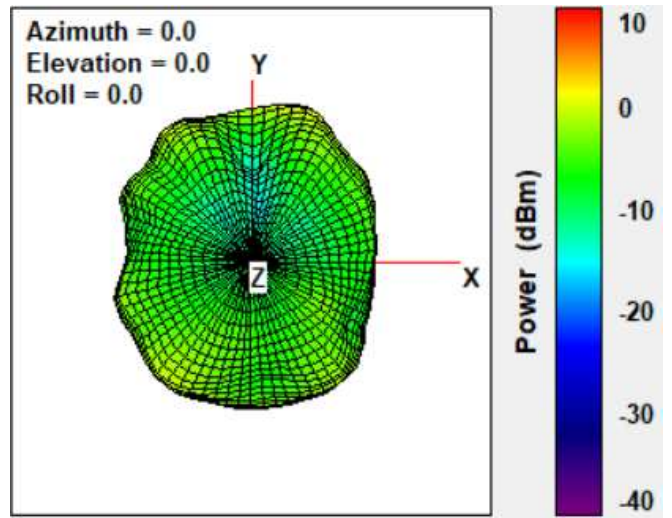
CHARTS

NB Mode

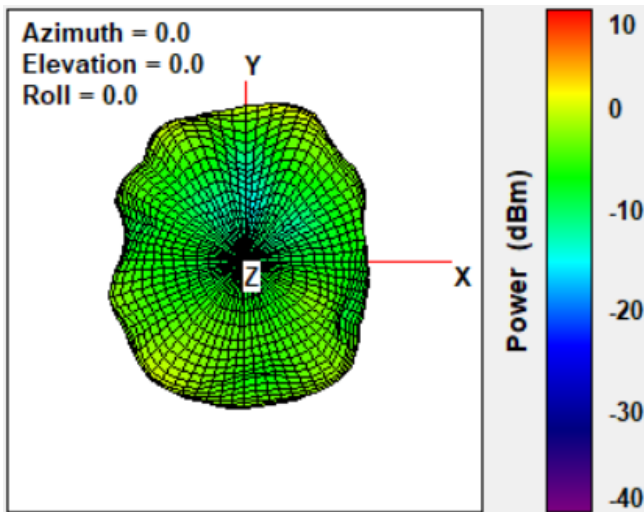
Radiation Pattern of WLAN Antenna (2400MHz)



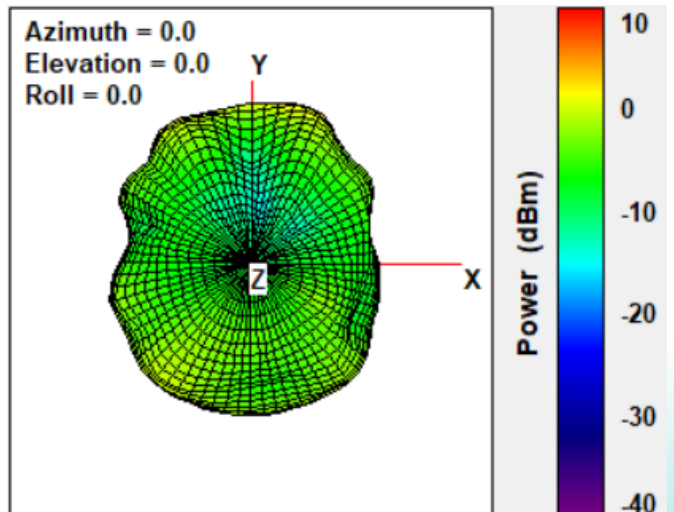
Radiation Pattern of WLAN Antenna (2412MHz)



Radiation Pattern of WLAN Antenna (2437MHz)



Radiation Pattern of WLAN Antenna (2462MHz)



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Series: BR1402 AUX

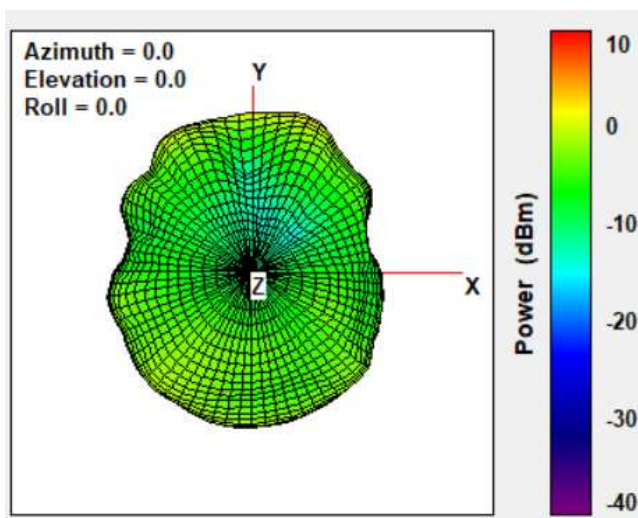
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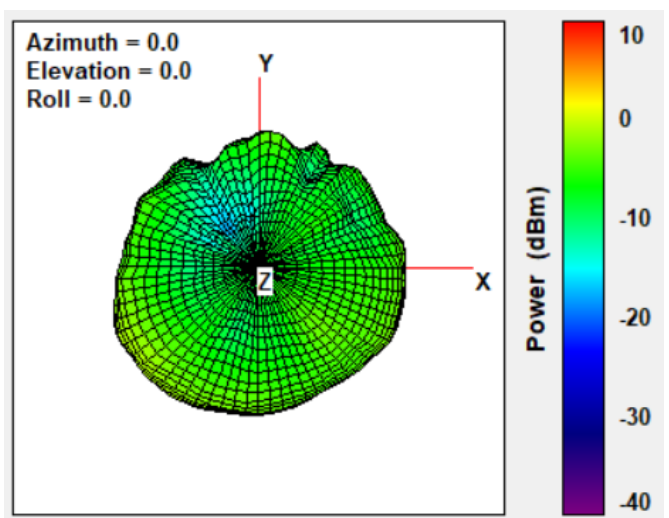
CHARTS

NB Mode

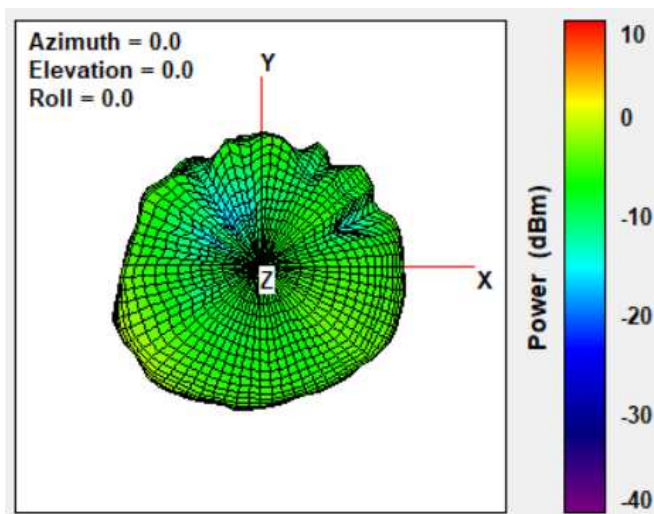
Radiation Pattern of WLAN Antenna (2500MHz)



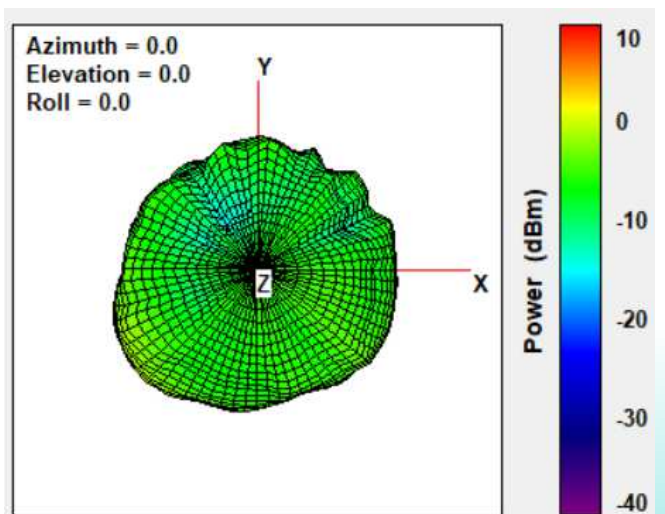
Radiation Pattern of WLAN Antenna (5150MHz)



Radiation Pattern of WLAN Antenna (5250MHz)



Radiation Pattern of WLAN Antenna (5350MHz)



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Series: BR1402 AUX

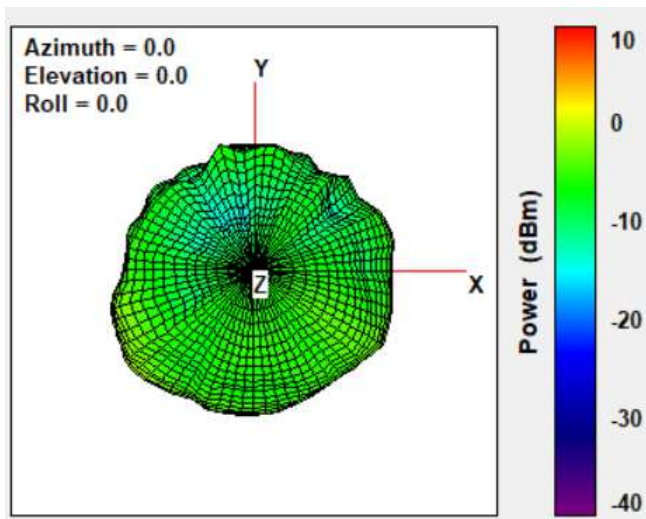
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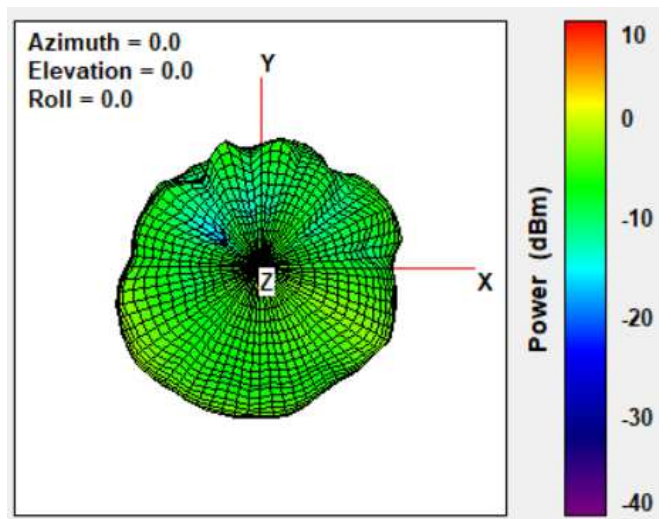
CHARTS

NB Mode

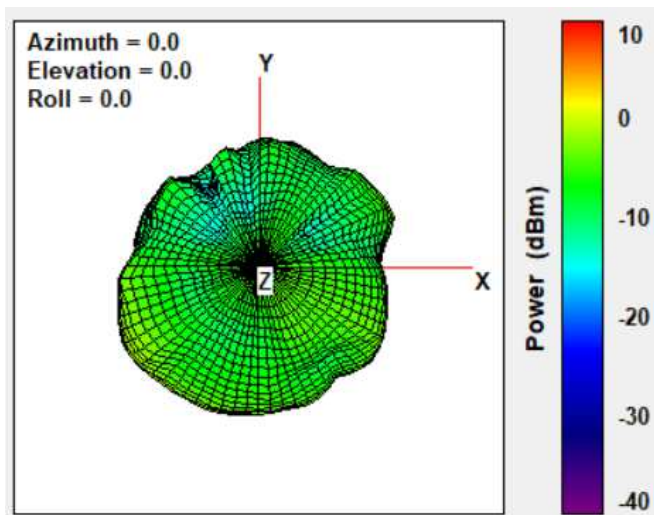
Radiation Pattern of WLAN Antenna (5470MHz)



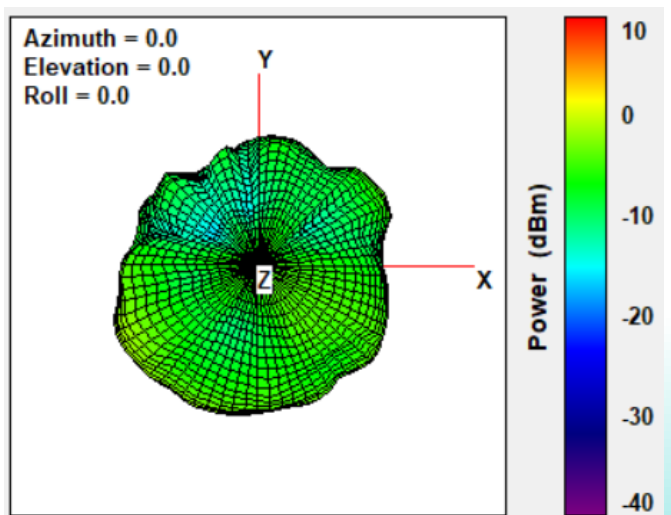
Radiation Pattern of WLAN Antenna (5600MHz)



Radiation Pattern of WLAN Antenna (5725MHz)



Radiation Pattern of WLAN Antenna (5785MHz)



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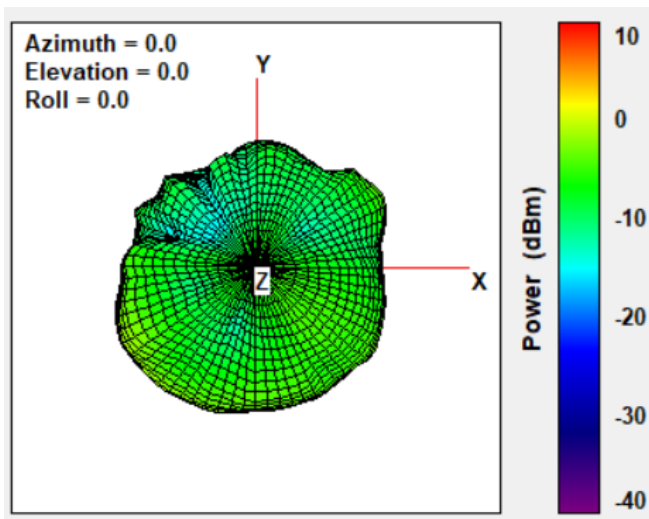
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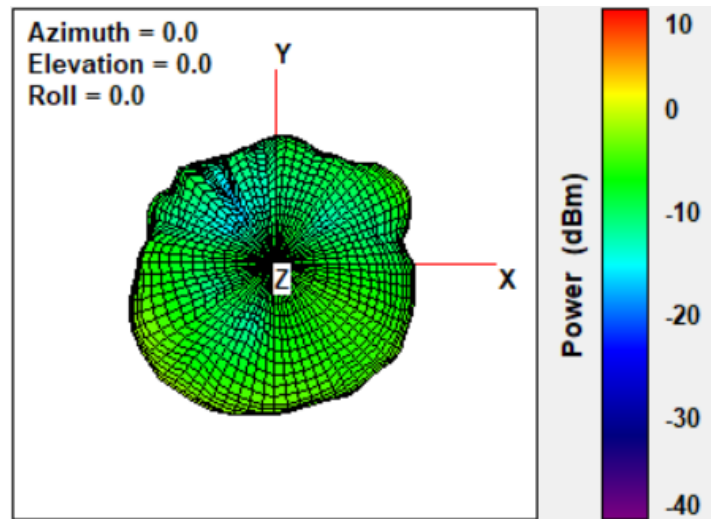
CHARTS

NB Mode

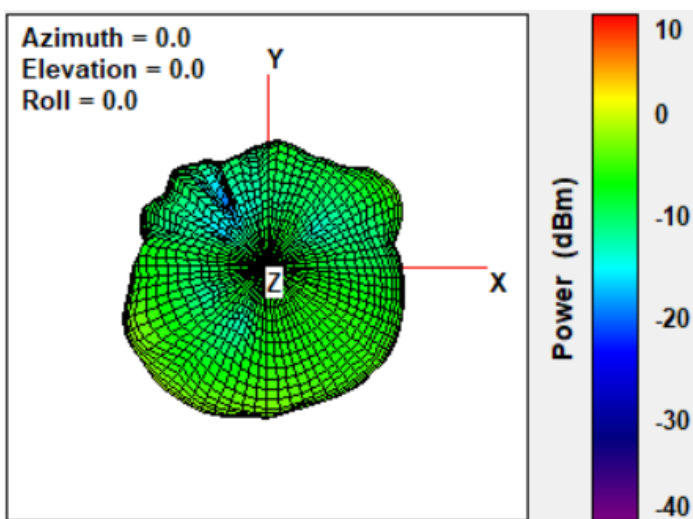
Radiation Pattern of WLAN Antenna (5850MHz)



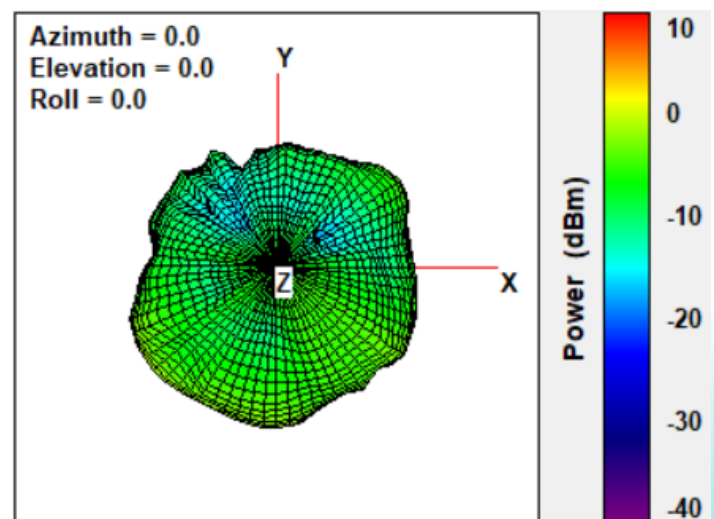
Radiation Pattern of WLAN Antenna (5895MHz)



Radiation Pattern of WLAN Antenna (5925MHz)



Radiation Pattern of WLAN Antenna (6125MHz)



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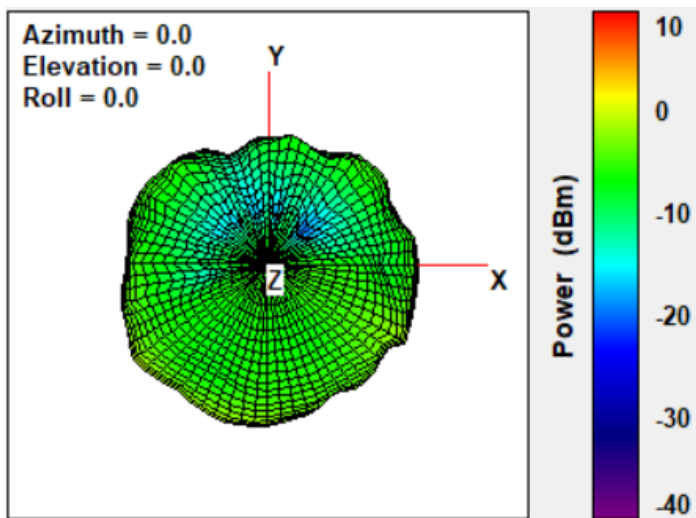
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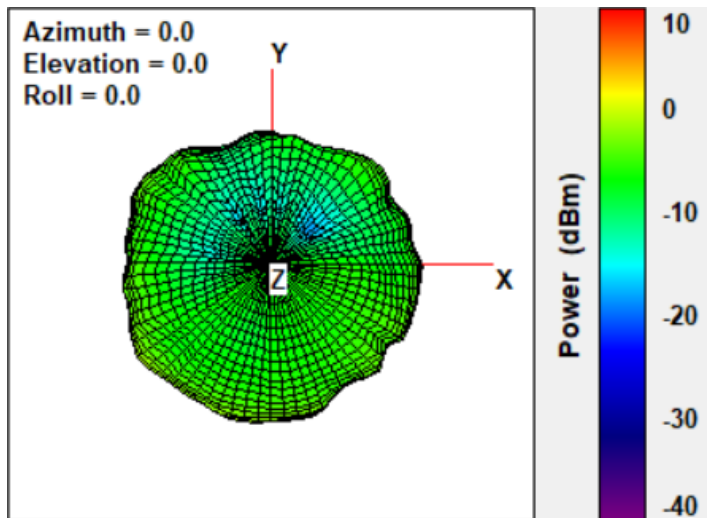
CHARTS

NB Mode

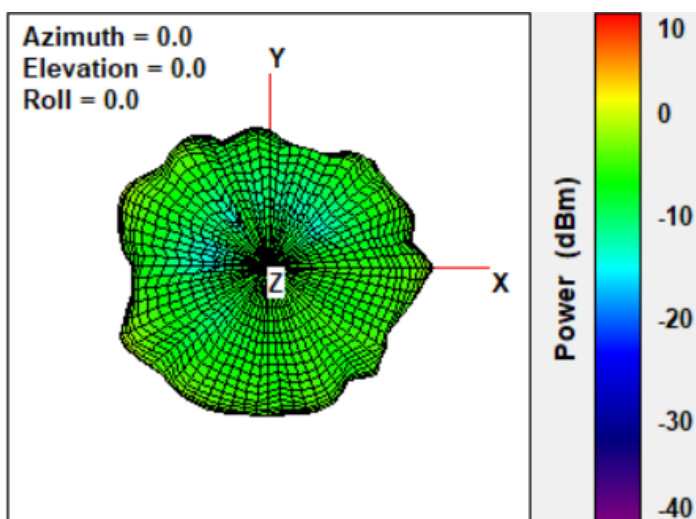
Radiation Pattern of WLAN Antenna (6425MHz)



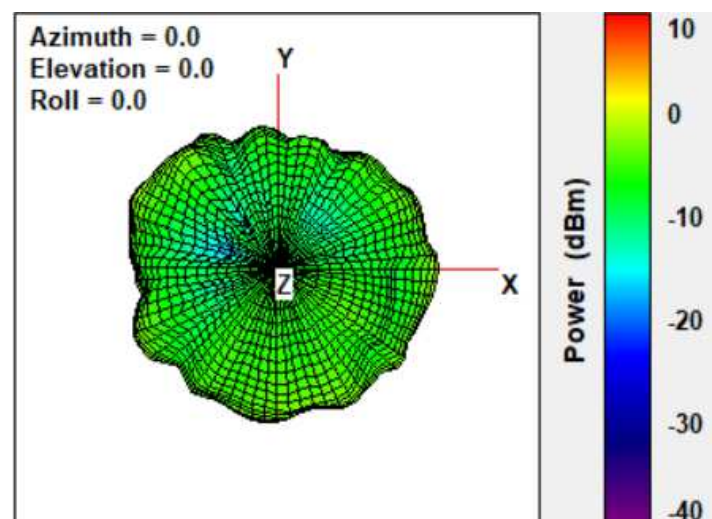
Radiation Pattern of WLAN Antenna (6525MHz)



Radiation Pattern of WLAN Antenna (6725MHz)



Radiation Pattern of WLAN Antenna (6875MHz)



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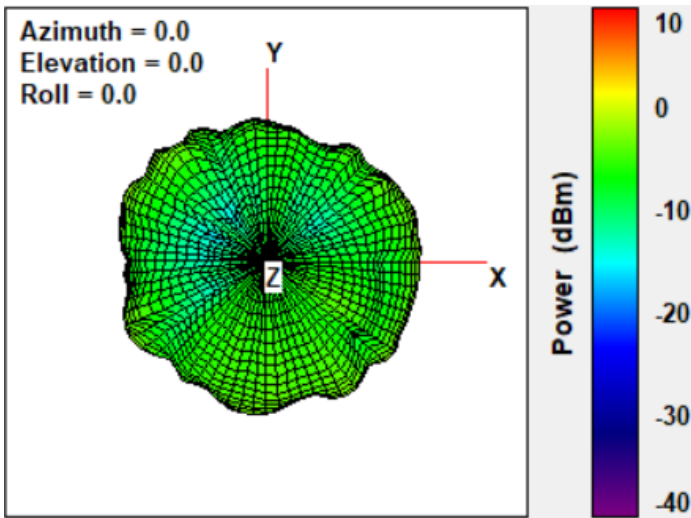
ASUS P/N : 14008-05650300

PULSE P/N : TZ2486E

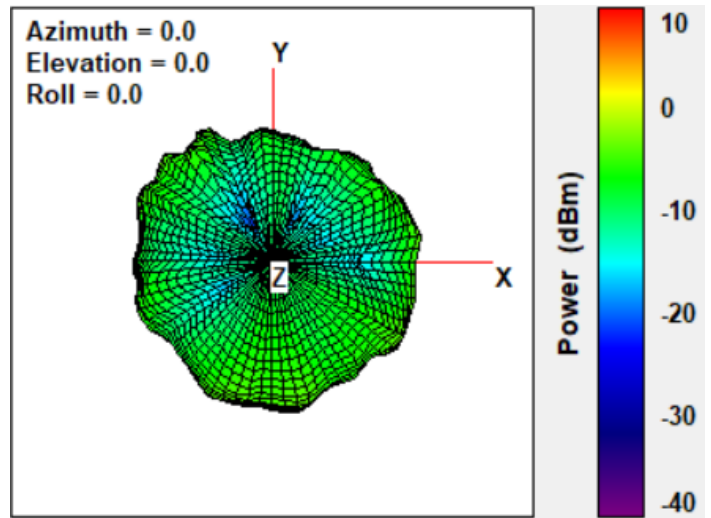
CHARTS

NB Mode

Radiation Pattern of WLAN Antenna (6925MHz)



Radiation Pattern of WLAN Antenna (7125MHz)



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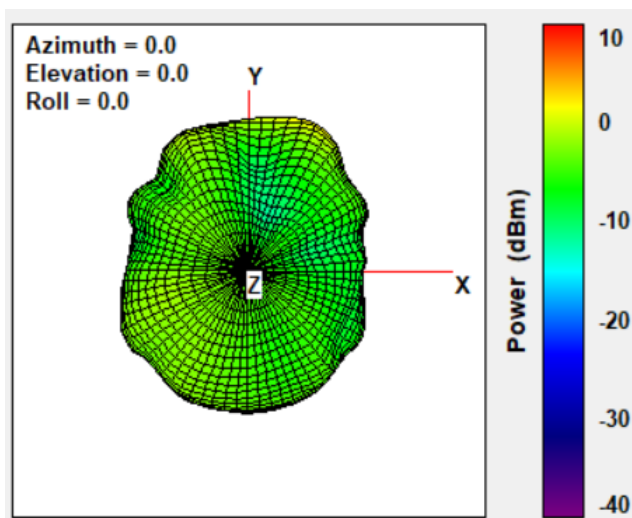
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PULSE P/N : TZ2486E

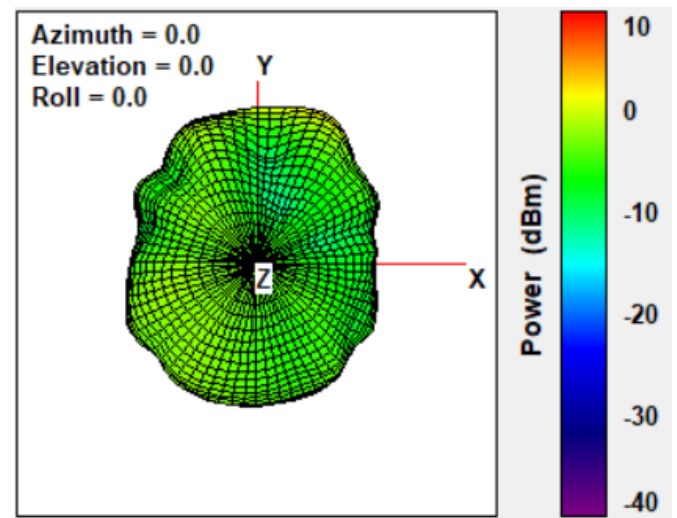
CHARTS

TB Mode

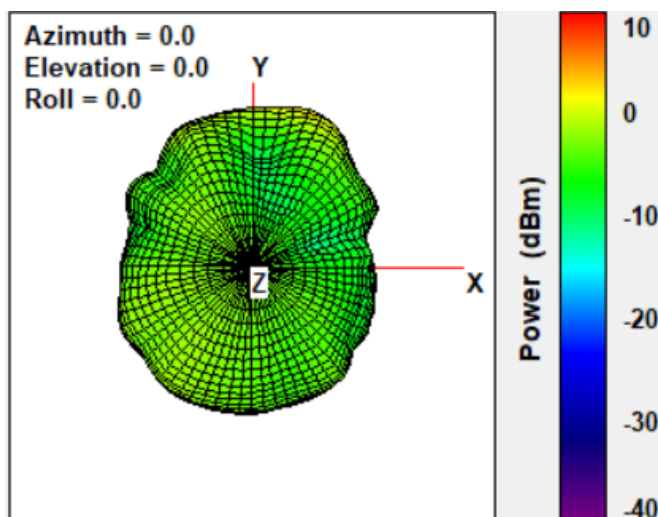
Radiation Pattern of WLAN Antenna (2400MHz)



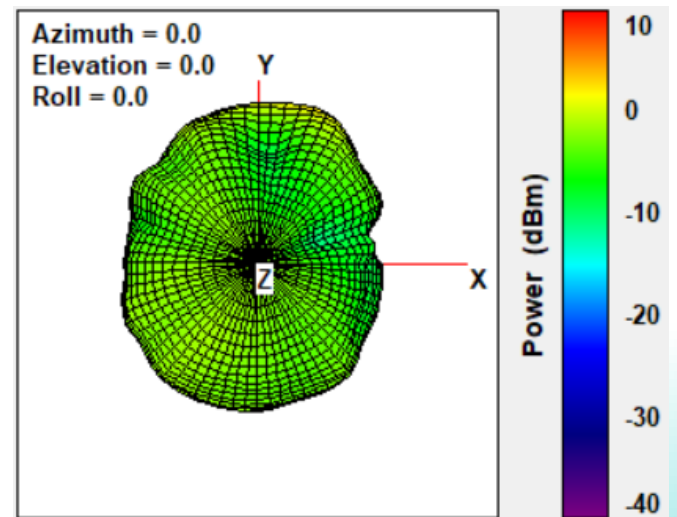
Radiation Pattern of WLAN Antenna (2412MHz)



Radiation Pattern of WLAN Antenna (2437MHz)



Radiation Pattern of WLAN Antenna (2462MHz)



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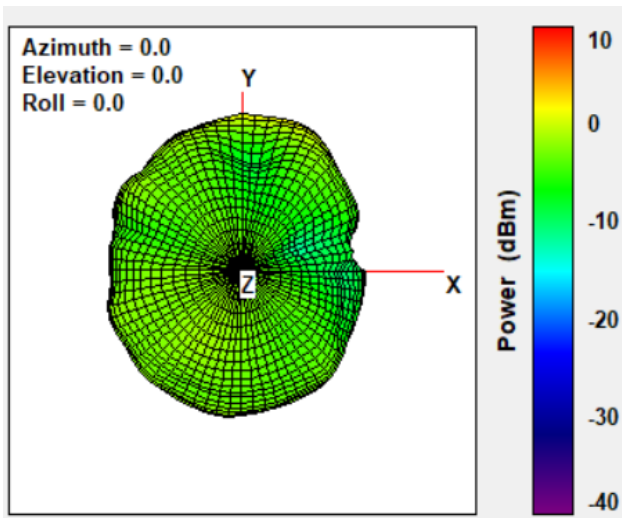
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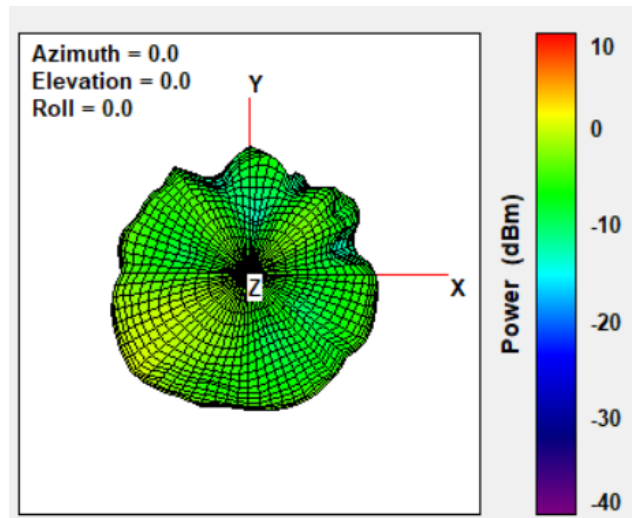
CHARTS

TB Mode

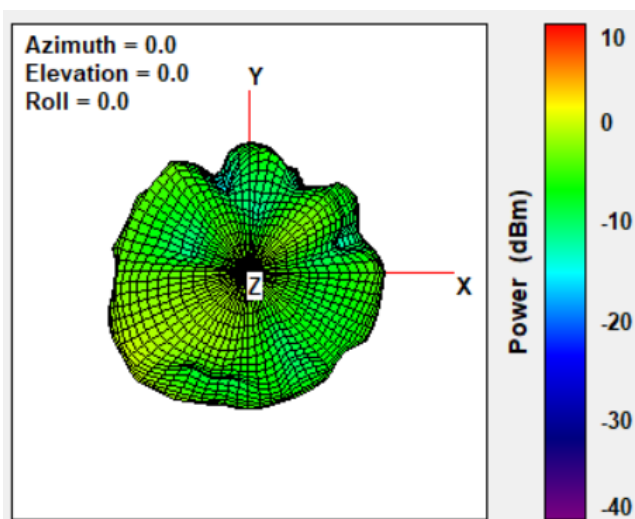
Radiation Pattern of WLAN Antenna (2500MHz)



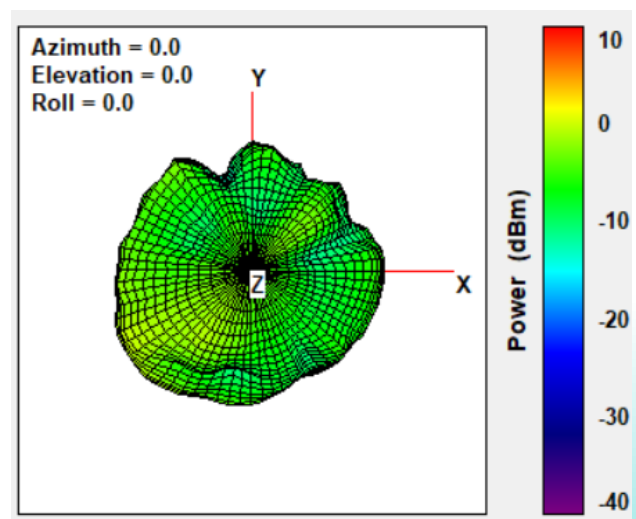
Radiation Pattern of WLAN Antenna (5150MHz)



Radiation Pattern of WLAN Antenna (5250MHz)



Radiation Pattern of WLAN Antenna (5350MHz)



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Series: BR1402 AUX

ASUS P/N : 14008-05650300

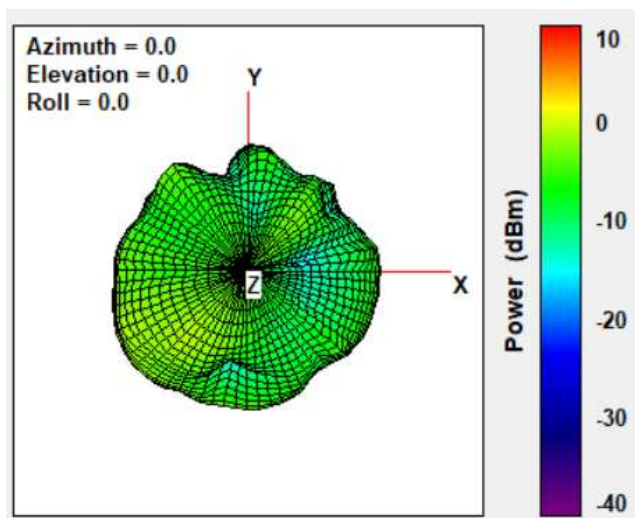
PULSE P/N : TZ2486E



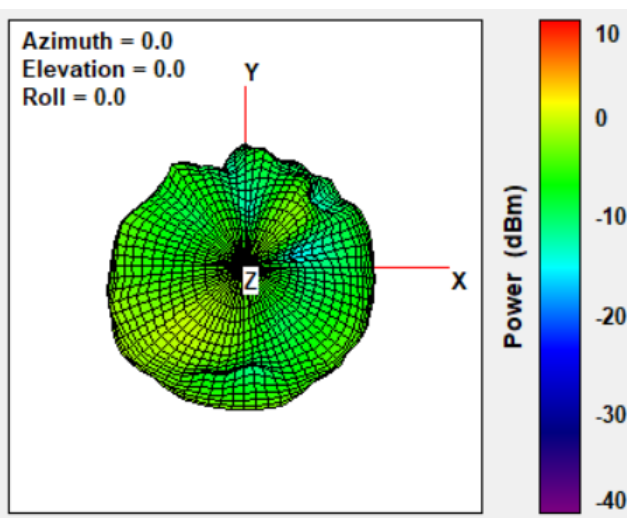
CHARTS

TB Mode

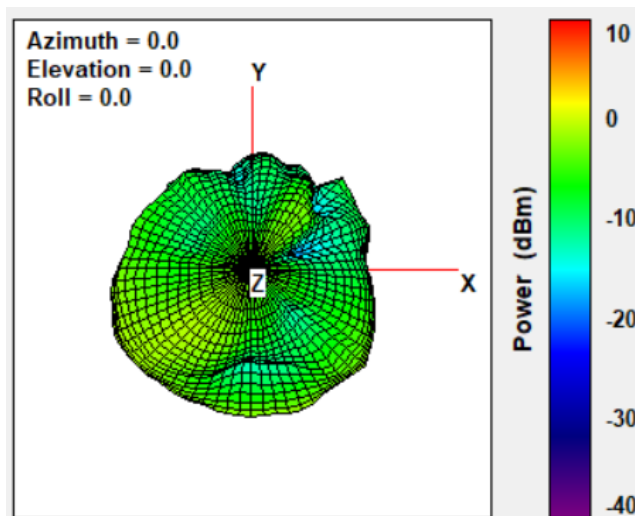
Radiation Pattern of WLAN Antenna (5470MHz)



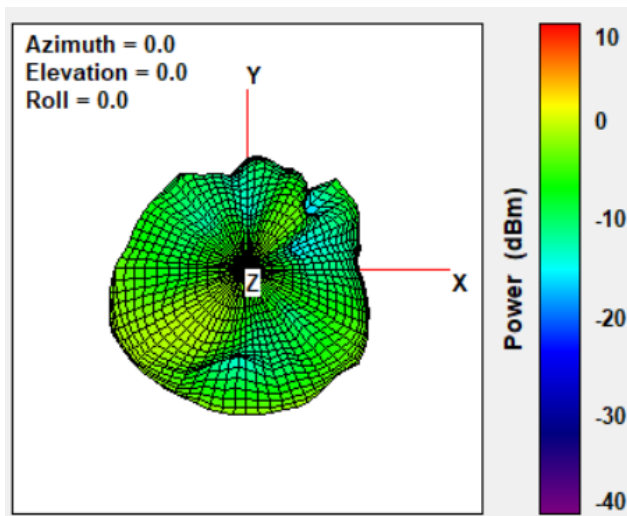
Radiation Pattern of WLAN Antenna (5600MHz)



Radiation Pattern of WLAN Antenna (5725MHz)



Radiation Pattern of WLAN Antenna (5785MHz)



Issue: 2032 DRAFT RALFYE

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Description: BR1402 AUX ANT



Series: BR1402 AUX

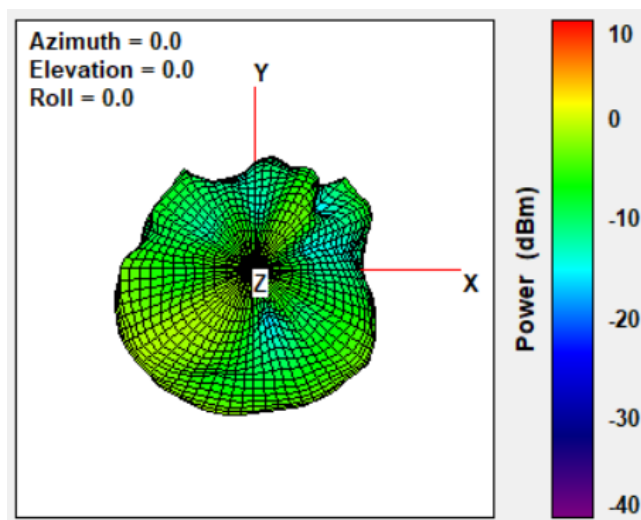
ASUS P/N : 14008-05650300

PULSE P/N : TZ2486E

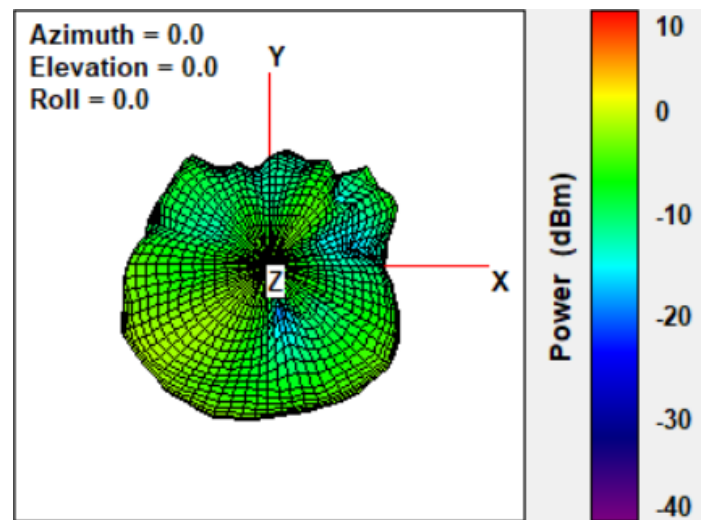
CHARTS

TB Mode

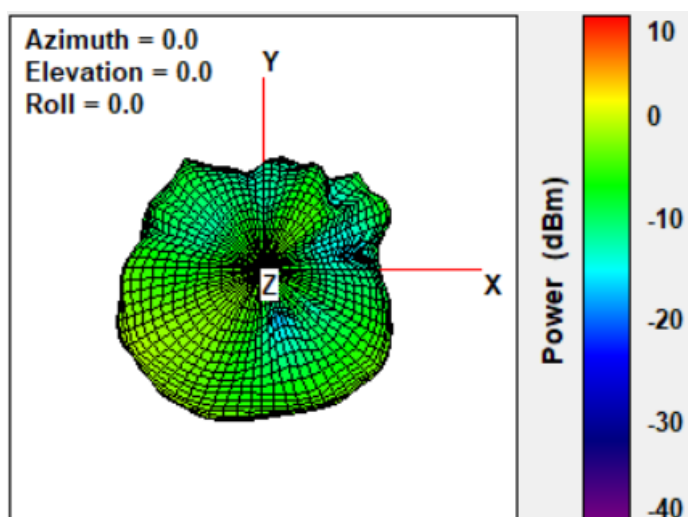
Radiation Pattern of WLAN Antenna (5850MHz)



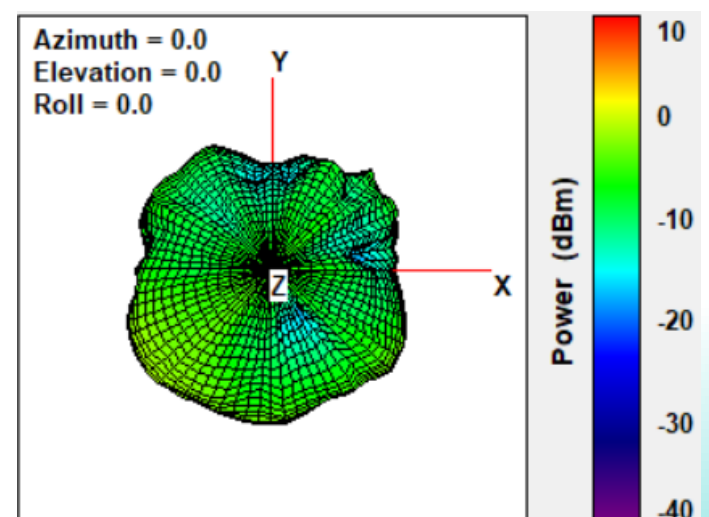
Radiation Pattern of WLAN Antenna (5895MHz)



Radiation Pattern of WLAN Antenna (5925MHz)



Radiation Pattern of WLAN Antenna (6125MHz)



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Description: BR1402 AUX ANT



Series: BR1402 AUX

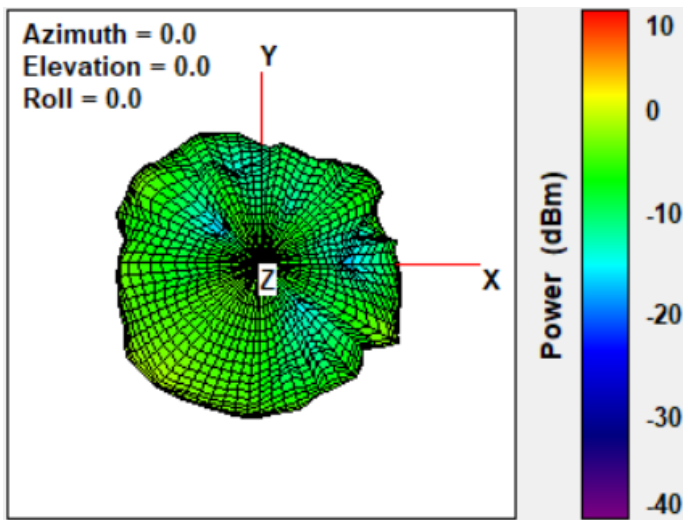
ASUS P/N : 14008-05650300

PULSE P/N : TZ2486E

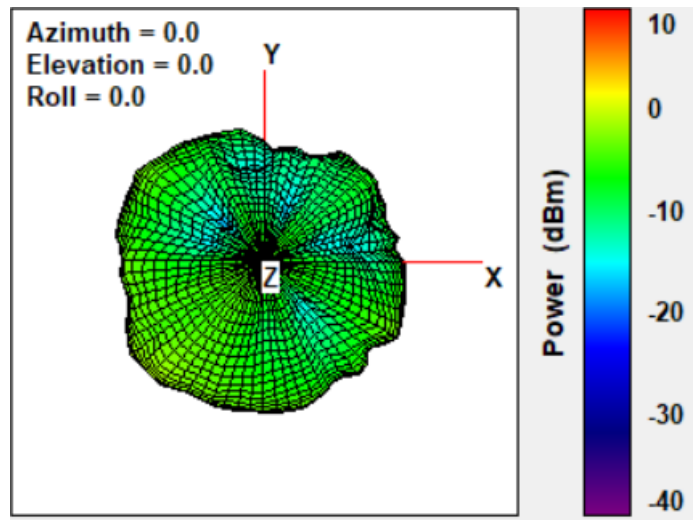
CHARTS

NB Mode

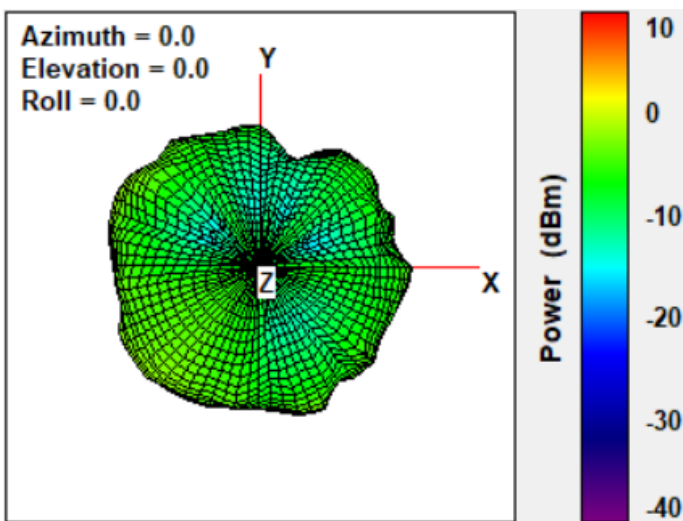
Radiation Pattern of WLAN Antenna (6425MHz)



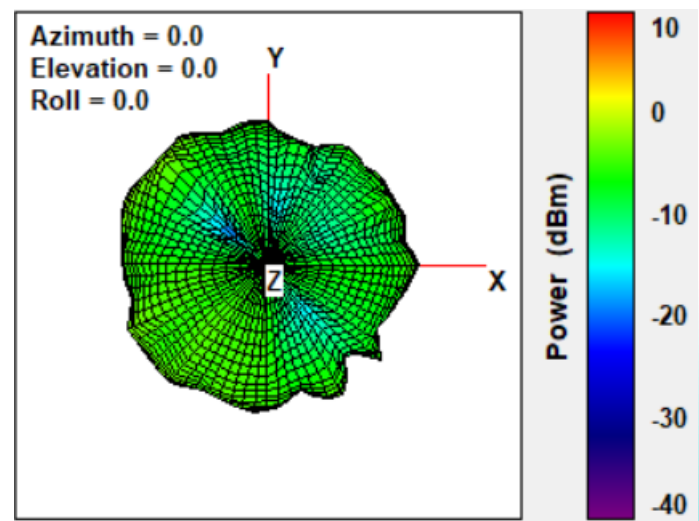
Radiation Pattern of WLAN Antenna (6525MHz)



Radiation Pattern of WLAN Antenna (6725MHz)



Radiation Pattern of WLAN Antenna (6875MHz)



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Description: BR1402 AUX ANT

Series: BR1402 AUX

ASUS P/N : 14008-05650300

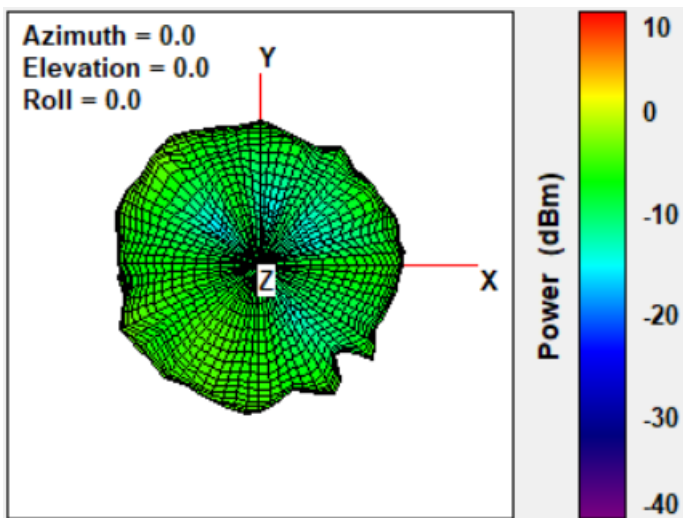
PULSE P/N : TZ2486E



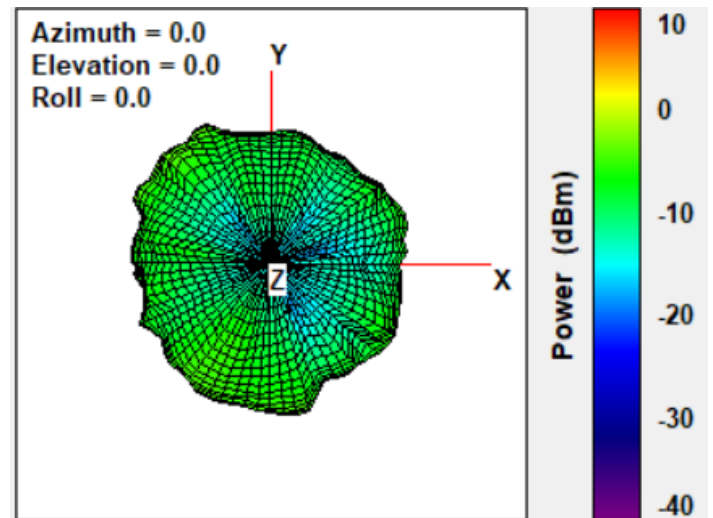
CHARTS

NB Mode

Radiation Pattern of WLAN Antenna (6925MHz)



Radiation Pattern of WLAN Antenna (7125MHz)



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ZPMV2.E520266 - Wiring, Printed - Component

Wiring, Printed - Component

Anhui Yongda Electronic Technology Co.,Ltd

Building 13 PCB Industrial Park Pengju Road
Guangde, 242200 China

E520266

Type	Cond Width		Max					Assembly		Max		Meets C	
	Min	Min	Cond	SS/	Area	Solder	Solder		Oper	Flame	UL796	T	
	mm(in)	mm(in)	Thk	DS/	Diam	Limits	Process (IPC)	Cycles	Temp	Class	DSR	I	
Multilayer printed wiring boards													
YD-2	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	25.4 (1)	288	20	-	-	130	V-0	All	*
Single layer metal base printed wiring boards, employing metal base laminate													
YD-3	0.138 (0.005)	0.414 (0.016)	18 (0.71)	SS	50.8 (2)	288	20	-	-	130	V-0	All	*
Single layer printed wiring boards													
YD-1	0.1 (0.004)	0.1 (0.004)	17 (0.67)	DS	25.4 (1)	288	20	-	-	130	V-0	All	*

* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name, type designation. May be followed by a suffix to denote factory identification or burning test classification.

Last Updated on 2021-04-07

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AVLV2.E318898 Appliance Wiring Material - Component

Page Bottom

Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component**SHENYU COMMUNICATION TECHNOLOGY INC**

E318898

275 E Waihuan Rd

Jiangyin, Jiangsu 214400 CHINA

Table of Recognized Styles							
Single-conductor, thermoplastic insulation.							
<u>1007</u>	<u>1333</u>	<u>1589</u>	<u>1723</u>	<u>1858</u>	<u>1901</u>	<u>10111</u>	
<u>1226</u>	1354	<u>1591</u>	<u>1726</u>	<u>1859</u>	<u>1927</u>	<u>10248</u>	
<u>1227</u>	<u>1371</u>	<u>1592</u>	<u>1727</u>	<u>1860</u>	<u>10005</u>	<u>10362</u>	
<u>1330</u>	<u>1538</u>	<u>1708</u>	<u>1766</u>	<u>1882</u>	<u>10011</u>	<u>10518</u>	
<u>1331</u>	<u>1571</u>	<u>1709</u>	<u>1847</u>	<u>1886</u>	<u>10064</u>	<u>11149</u>	
<u>1332</u>	<u>1577</u>	<u>1710</u>	<u>1857</u>	<u>1887</u>	<u>10072</u>		
Multiple-conductor, thermoplastic insulation.							
<u>2464</u>	<u>2725</u>	<u>20276</u>	<u>21100</u>				

Marking: Company name, voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

Last Updated on 2016-06-13[Questions?](#)[Print this page](#)[Terms of Use](#)[Page Top](#)

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Standard Appliance Wiring Material UL 758.

Marking General.

Use Internal wiring of Class 2 circuits of
electronic equipment or as insulated single
in jacketed multiconductor cables.



ZPFW2.E491030 - Wiring Harnesses - Component

Note: We are enhancing our systems and you may notice duplicate entries/missing/outdated data. During this interim period, please contact our Customer Service at <https://www.ul.com/about/locations>.

Wiring Harnesses - Component

Pulse (Suzhou) Wireless Products Co Ltd

E491030

No.99 Huo Ju Road, Suzhou New District
Suzhou, Jiangsu 215009 China

Marking: Company name and model designation.

Note: For additional marking information, refer to the [Guide Information Page](#).

Model(s): Wiring Harnesses

Last Updated on 2021-11-02

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Issue Date: September 1, 2021

I-PEX Inc.

Electronic Components & Devices Div,
Quality Assurance Department

Approved by	Prepared by
K. Narita	A. Watanabe

Certificate of Compliance with RoHS Directive and REACH Regulation

I-PEX Inc. warrants that the product complies with EU RoHS Directive and REACH Regulation.

MHF_4L

Certified Part Number

20565-001R-083	20565-001R-13	20565-001R-13A	20565-001R-13L	20572-001R-08	20572-002R-08
20579-001E	20579-001E-01	20632-001R-37			

➤ **EU RoHS Directive (2011/65/EU, (EU)2015/863)**

Cadmium (Cd)	<100ppm
Lead (Pb)	<1000ppm
Mercury (Hg)	<1000ppm
Hexavalent Chromium (Cr+6)	<1000ppm
Polybrominated biphenyls (PBB)	<1000ppm
Polybrominated diphenyl ethers (PBDE)	<1000ppm
Bis(2-ethylhexyl) phthalate (DEHP)	<1000ppm
Butyl benzyl phthalate (BBP)	<1000ppm
Dibutyl phthalate (DBP)	<1000ppm
Diisobutyl phthalate (DIBP)	<1000ppm

➤ **EU REACH Regulation**

REACH SVHC (as of the date of inclusion: 08 July 2021) are not contained over 1000ppm in the product.

Please refer to ECHA website below for the detail of SVHC.

<https://echa.europa.eu/candidate-list-table>

塑膠材料保證書
CERTIFICATE OF COMPLIANCE OF PLASTIC MATERIAL

供應商

VENDER I-PEX INC.

料號

PART NUMBER 20565-001R-13*

品名

PART DESCRIPTION MHF PLUG ASS'Y

數量/訂單號碼

QUANTITY/P.O. NO. _____

出貨日期

SHIPPING DATE _____

原料製造商

MATERIAL SUPPLIER POLYPLASTICS CO LTD

原料品名/規格

MATERIAL DESCRIPTION/SPEC XFR 4840 GF10 (w), 310NF (w)

原料 UL 號碼

MATERIAL UL FILE NUMBER

原料防火等級

MATERIAL FLAMMABILITY CLASS

E213445

UL94, V-0

供應商保證 VENDER GUARANTY

1. 本批產品使用之原料確實依上述規格供應，若有變更冒替，本公司願負賠償之責。
IF THERE IS ANY DEVIATION TO THE LIST ABOVE, WE WILL BE RESPONSIBLE FOR THE COST INCURRED.
2. 本批產品所使用的回收料(次料)不可超過 50% .
THE REPROCESSED MATERIAL USED IN THIS SHIPMENT DOES NOT EXCEED 50

供應商簽章及蓋公司章

VENDER SIGNATURE & COMPANY SEAL _____



XFR 4840 GF10 (w), 310NF (w) - Plastics - Component

Plastics - Component

File Number: E213445



COMPANY

POLYPLASTICS CO LTD

18-1 KONAN 2-CHOME

MINATO-KU, TOKYO 108-8280 Japan

MODEL INFO

Duranex: XFR 4840 GF10 (w), 310NF (w)

Polybutylene Terephthalate (PBT) , furnished as pellets

--(w) Virgin and regrind up to 50% by weight inclusive, have the same flame characteristics only.

FLAMMABILITY PROPERTIES	NOMINAL VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.75 mm, Color: ALL	V-0	
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	5VA V-0	

ISO/IEC FLAMMABILITY PROPERTIES	NOMINAL VALUE	TEST METHOD
Flammability		IEC 60695-11-10
0.75 mm, Color: ALL	V-0	
1.5 mm, Color: ALL	V-0	
3.0 mm, Color: ALL	V-0	
Flammability (3.0 mm, Color: ALL)	5VA	IEC 60695-11-20

ELECTRICAL PROPERTIES**NOMINAL VALUE****TEST METHOD**

ELECTRICAL PROPERTIES	NOMINAL VALUE	TEST METHOD
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	1 PLC	
1.5 mm	1 PLC	
3.0 mm	1 PLC	
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	0 PLC	
1.5 mm	0 PLC	
3.0 mm	0 PLC	
Comparative Tracking Index (CTI)	1 PLC	UL 746
Dielectric Strength	24 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	0 PLC	
Volume Resistivity	1.0E+14 ohms-cm	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance	5 PLC	

THERMAL PROPERTIES**NOMINAL VALUE****TEST METHOD**

THERMAL PROPERTIES	NOMINAL VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength		UL 746B
0.75 mm	130 °C	
1.5 mm	130 °C	
3.0 mm	130 °C	
Relative Thermal Index - Mechanical Impact		UL 746B
0.75 mm	125 °C	
1.5 mm	125 °C	
3.0 mm	125 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
0.75 mm	125 °C	
1.5 mm	125 °C	
3.0 mm	125 °C	