

產 品 規 格 承 認 書

SPECIFICATION FOR APPROVAL

Customer : Dynacolor

Vendor code : M0508

MACHINERY: D-F

PART NAME : BT ANTENNA

Customer P/N : 315B0FXX2000

Manufacturer P/N : TZ28843 **Date :** 250402

CUSTOMER			
ACCEPTED BY :			
核 准	審 核	承 認 者	承 認 單 位
<input type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			

審 核 by	作 成 by	RF by

Description:**Series: D-F**
BT ANTENNA**Customer P/N: 315B0FXX2000**
Manufacturer P/N: TZ28843

Revisions

REV.	Description	Rev.Page	Date	Prepared by	Approved by
V01	Release for MP	all	250402		

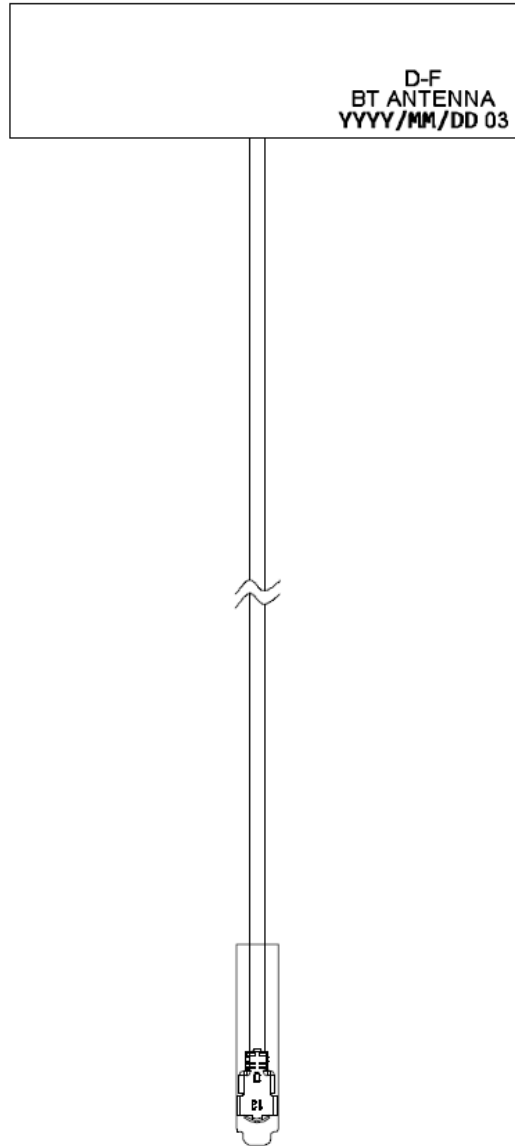
Description:

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Features:

- BT ANTENNA
- Flexible Printed Circuit
- RoHS Compliant

**Applications:**

- Monitor

All dimensions are in mm / inches

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

ELECTRICAL SPECIFICATIONS (After-assembly)

Antenna Type	FPC Antenna
Frequency	2.4GHz-2.5GHz 50 Ω
Nominal Impedance	Omni
Radiation Pattern	Maximum Peak Gain = 2.94 dBi
Gain	inear
Polarization	1W
Power Withstanding	

MECHANICAL SPECIFICATIONS

Overall Length	
Antenna Color / Material	See table, P5
Connector type	See table, P5
Cable type	See table, P5
Cable length	See table, P5
Adhesive tape	3M 467

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20 ~ +80°C
Storage Temperature	-20 ~ +80°C
RoHS Compliant	Yes

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

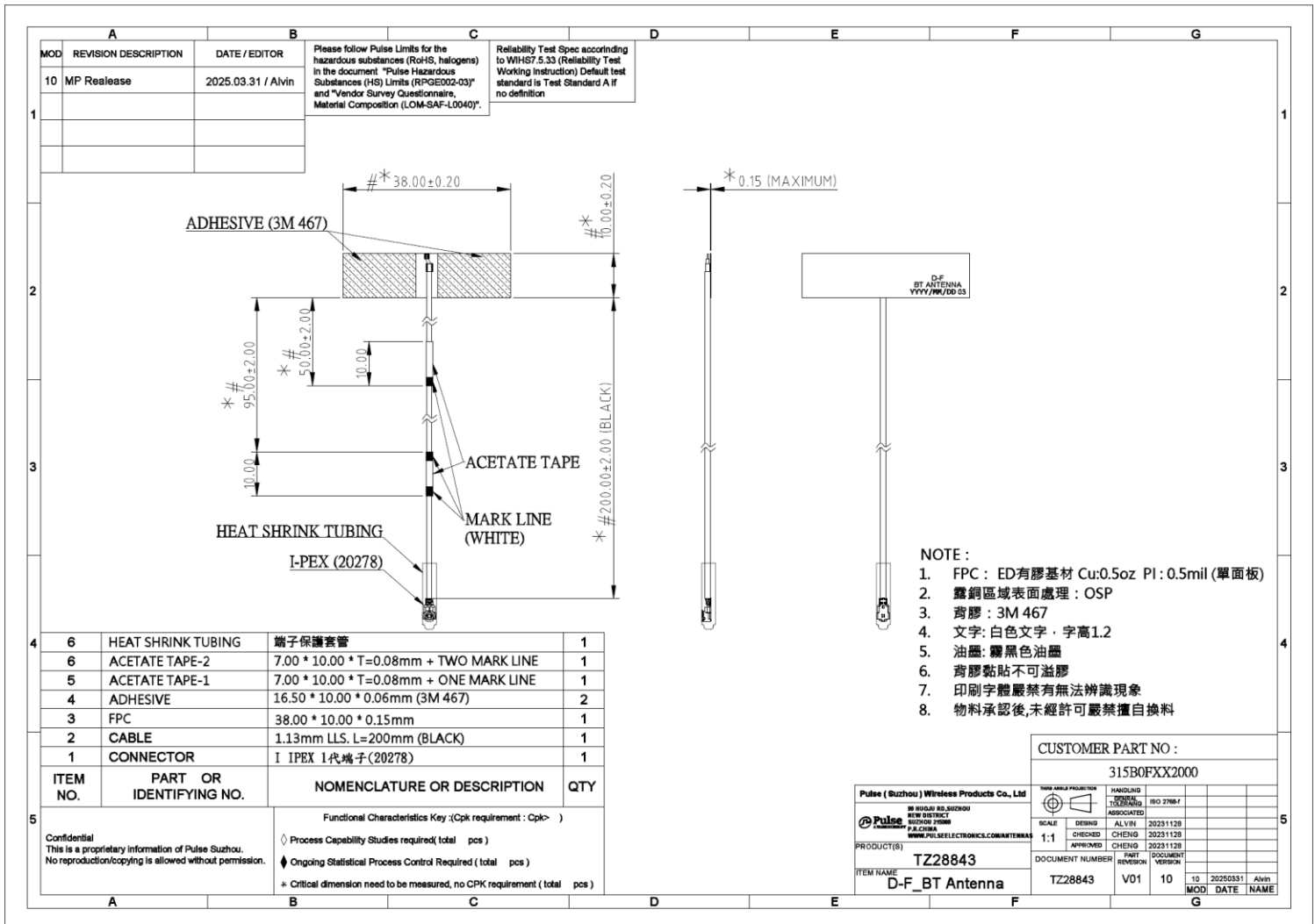
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

MECHANICAL DRAWING



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse -Yageo. and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

product photo

Front side



Reverse side



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

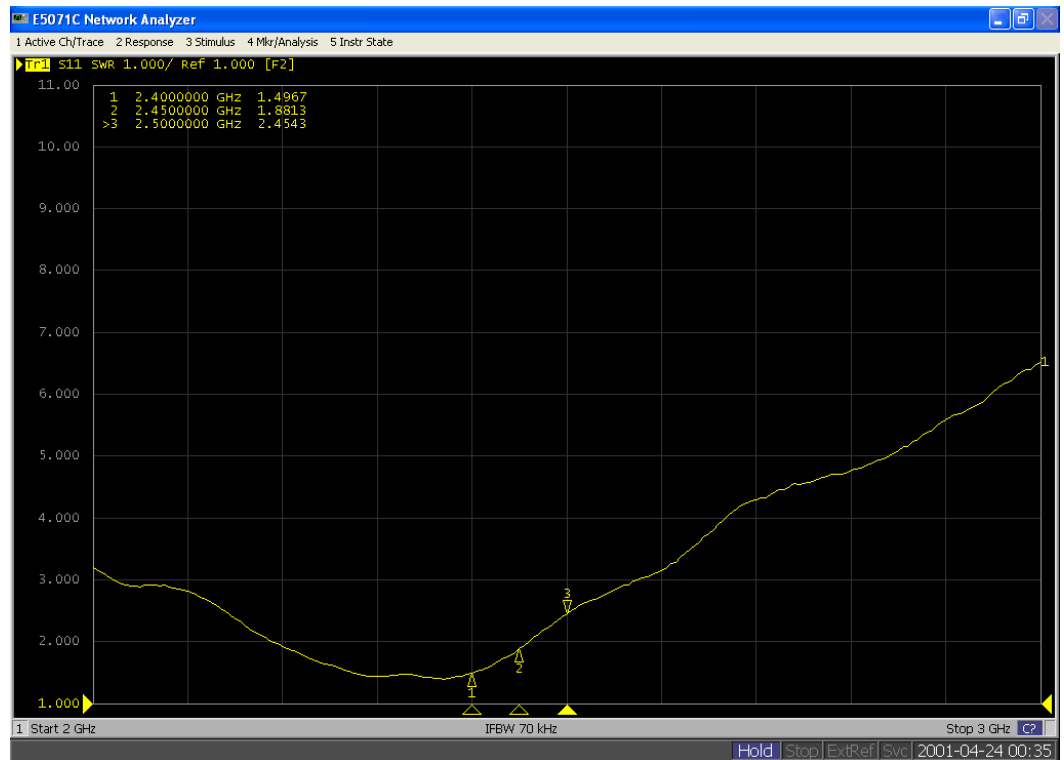
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
 BT ANTENNA

Customer P/N: 315B0FXX2000
 Manufacturer P/N: TZ28843

Electrical test



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test

Frequency (MHz)	Eff. (%)
2400	45%
2410	44%
2420	43%
2430	42%
2440	42%
2450	41%
2460	42%
2470	41%
2480	43%
2490	43%
2500	43%

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

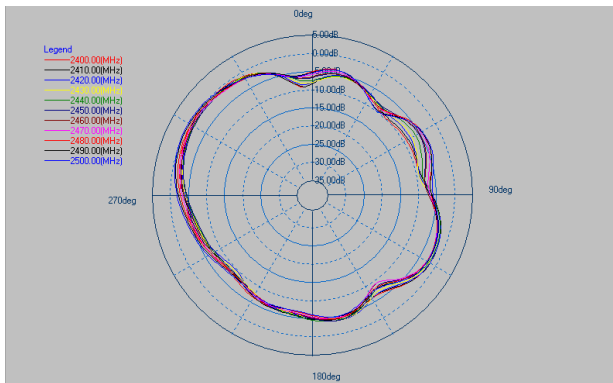
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

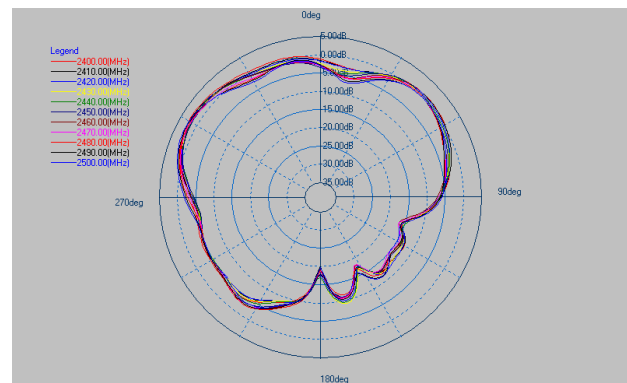
Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

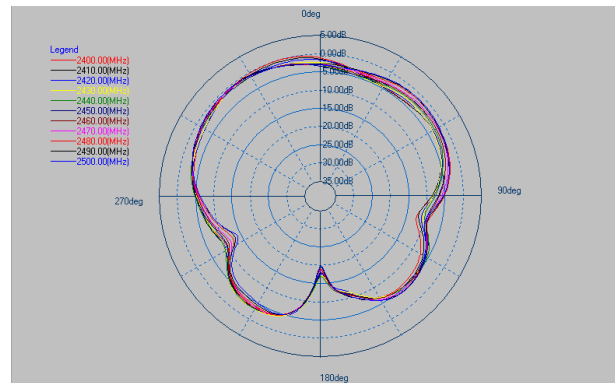
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

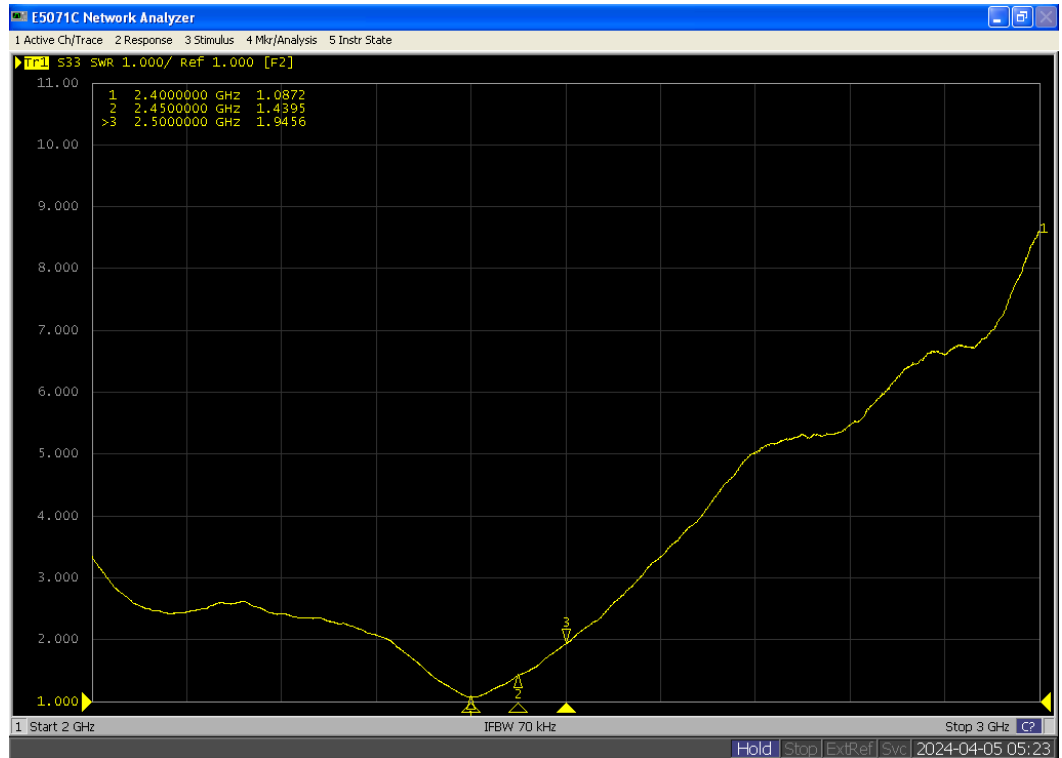
Description:



Series: D-F
 BT ANTENNA

Customer P/N: 315B0FXX2000
 Manufacturer P/N: TZ28843

Electrical test



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test

Frequency (MHz)	Eff. (%)
2400	53%
2410	53%
2420	54%
2430	54%
2440	56%
2450	57%
2460	57%
2470	56%
2480	56%
2490	56%
2500	55%

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

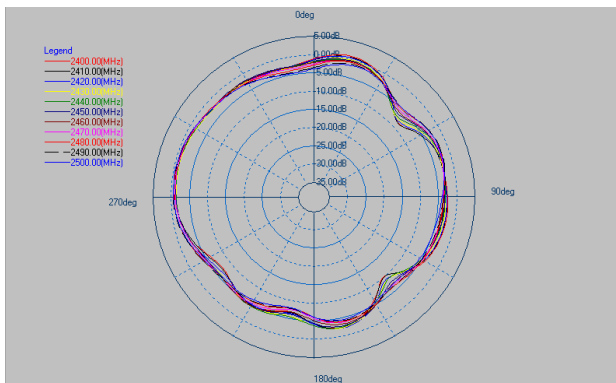
This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Description:

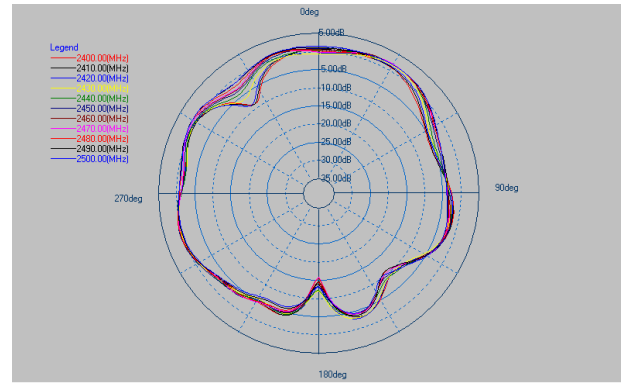
Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

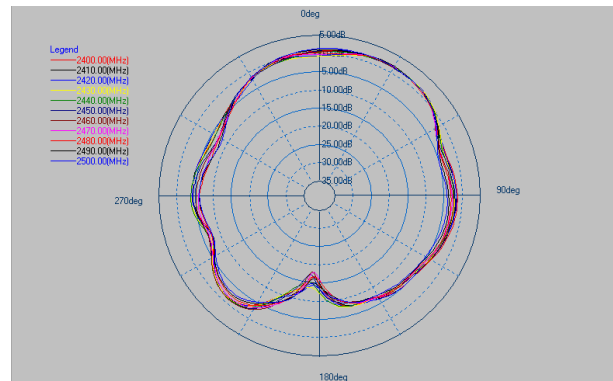
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

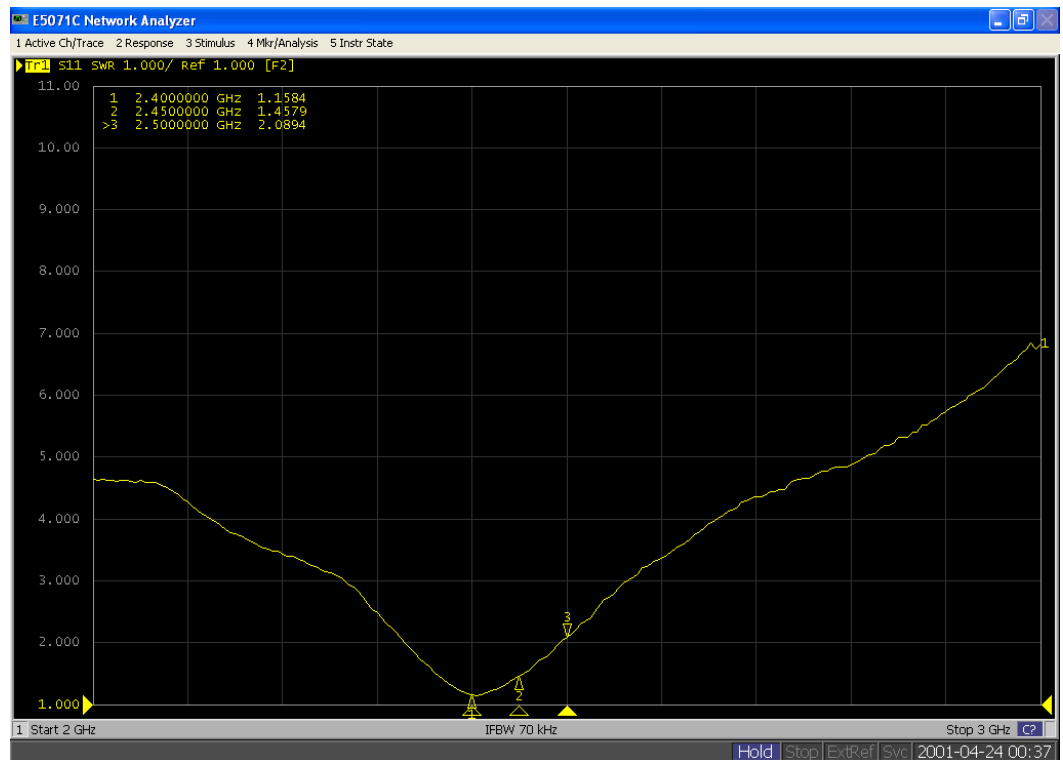
Description:



Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test

Frequency (MHz)	Eff. (%)
2400	53%
2410	52%
2420	53%
2430	52%
2440	53%
2450	53%
2460	51%
2470	49%
2480	50%
2490	49%
2500	47%

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

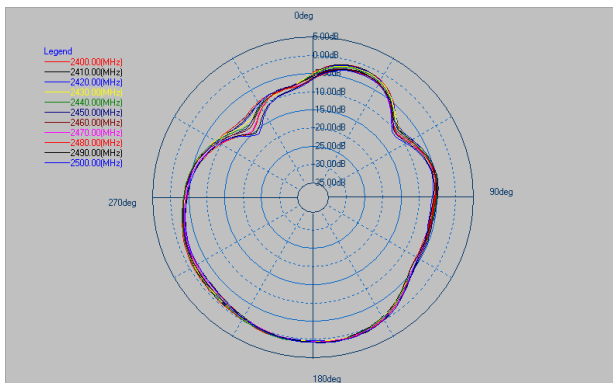
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

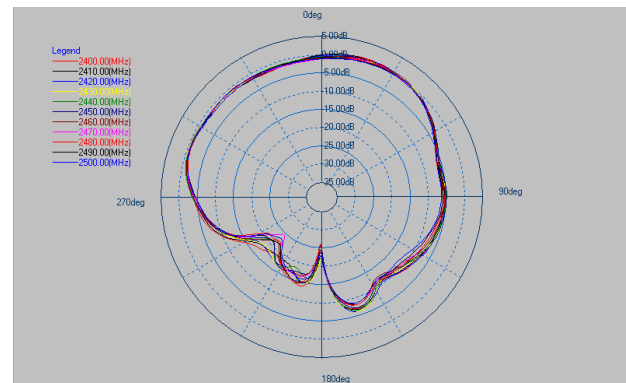
Series: D-F
 BT ANTENNA

Customer P/N: 315B0FXX2000
 Manufacturer P/N: TZ28843

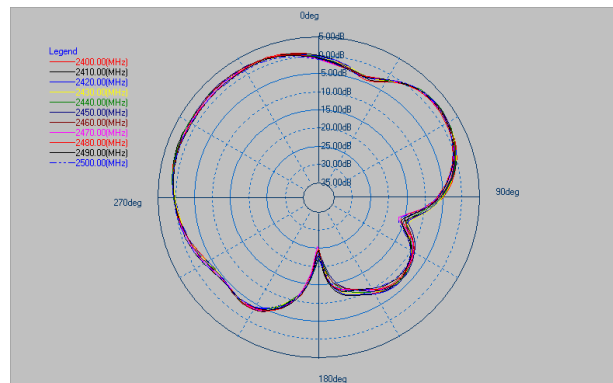
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

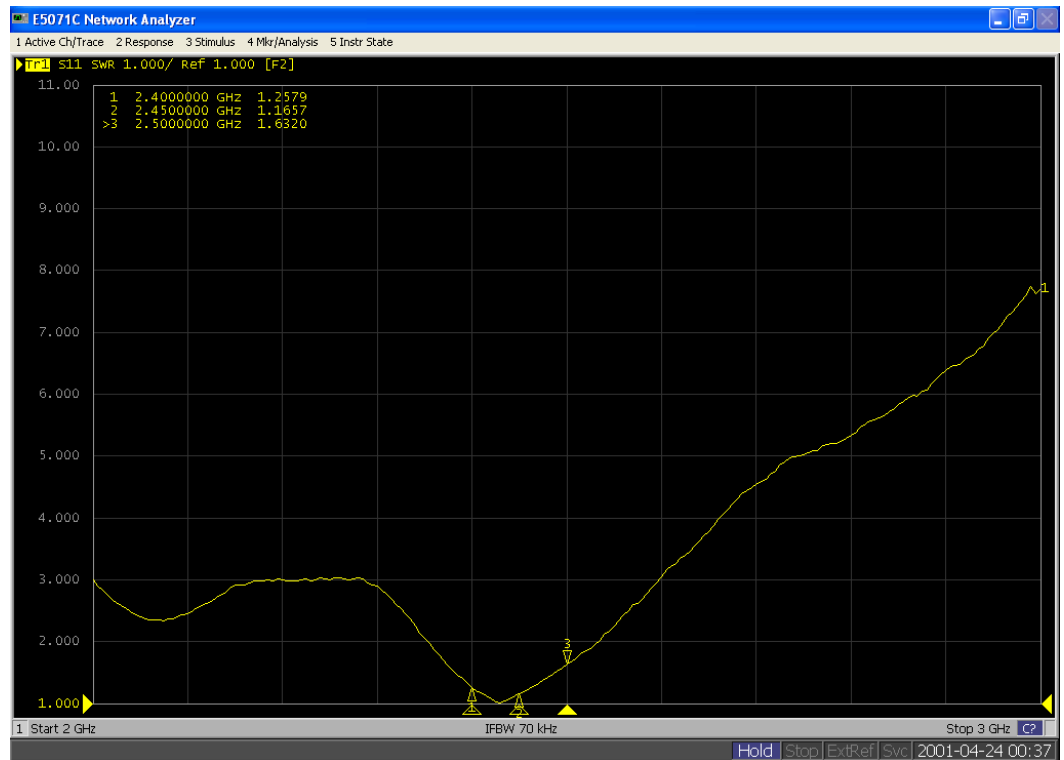
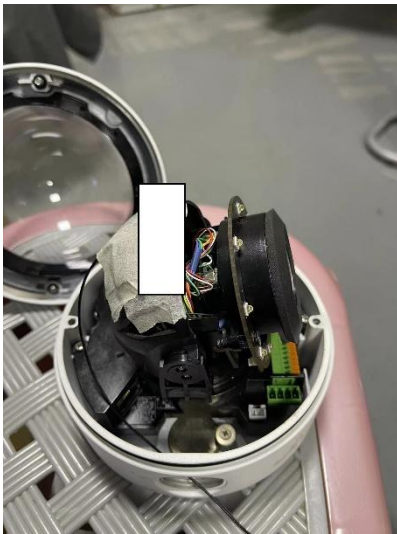
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
 BT ANTENNA

Customer P/N: 315B0FXX2000
 Manufacturer P/N: TZ28843

Electrical test



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test

Frequency (MHz)	Eff. (%)
2400	48%
2410	49%
2420	51%
2430	51%
2440	53%
2450	54%
2460	54%
2470	53%
2480	55%
2490	54%
2500	53%

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

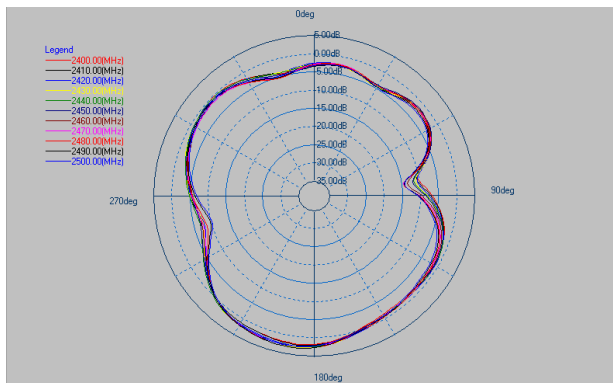
This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Description:

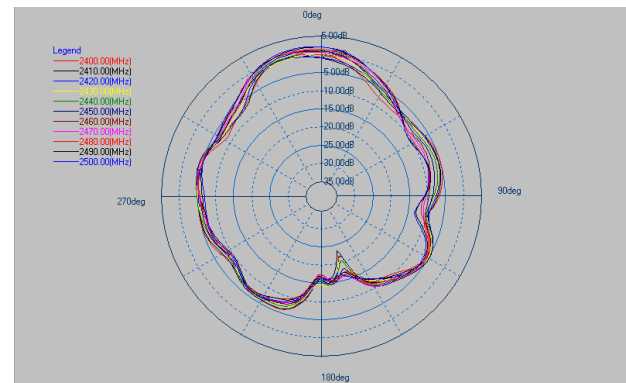
Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

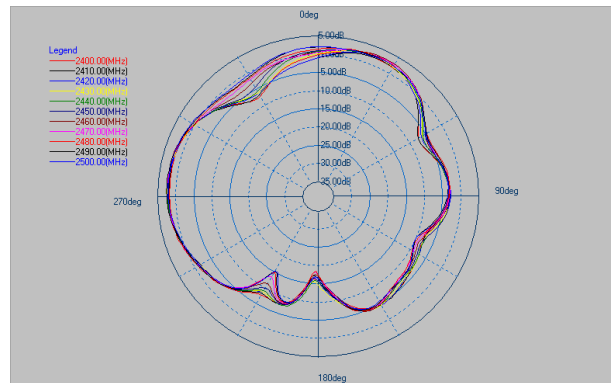
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

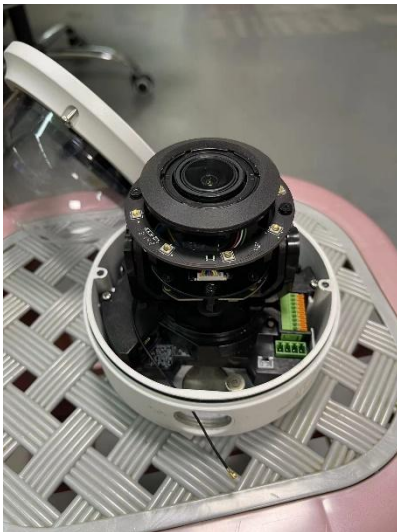
CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test

Frequency (MHz)	Eff. (%)
2400	48%
2410	47%
2420	48%
2430	47%
2440	48%
2450	48%
2460	46%
2470	45%
2480	45%
2490	44%
2500	43%

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

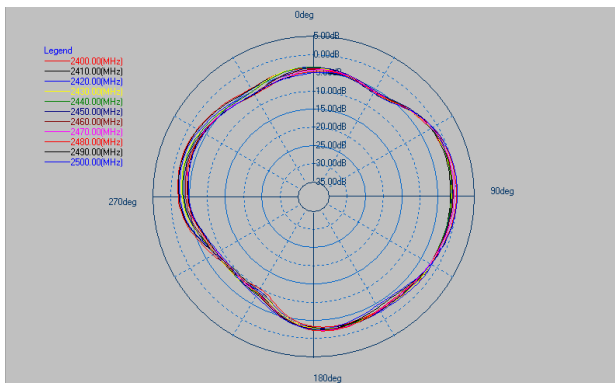
This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Description:

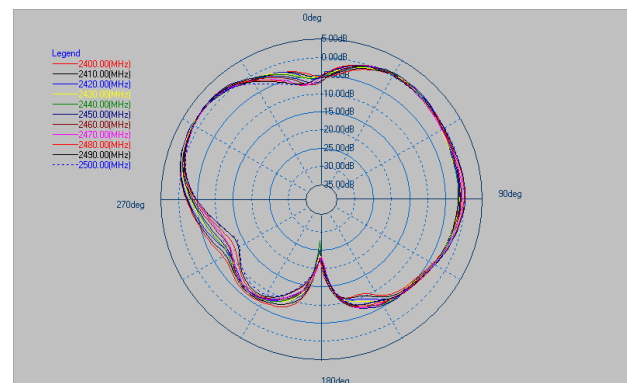
Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

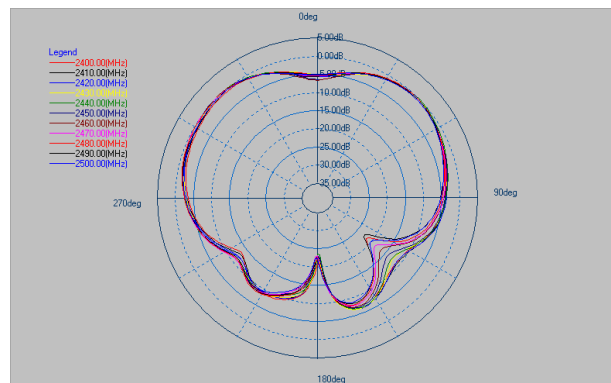
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

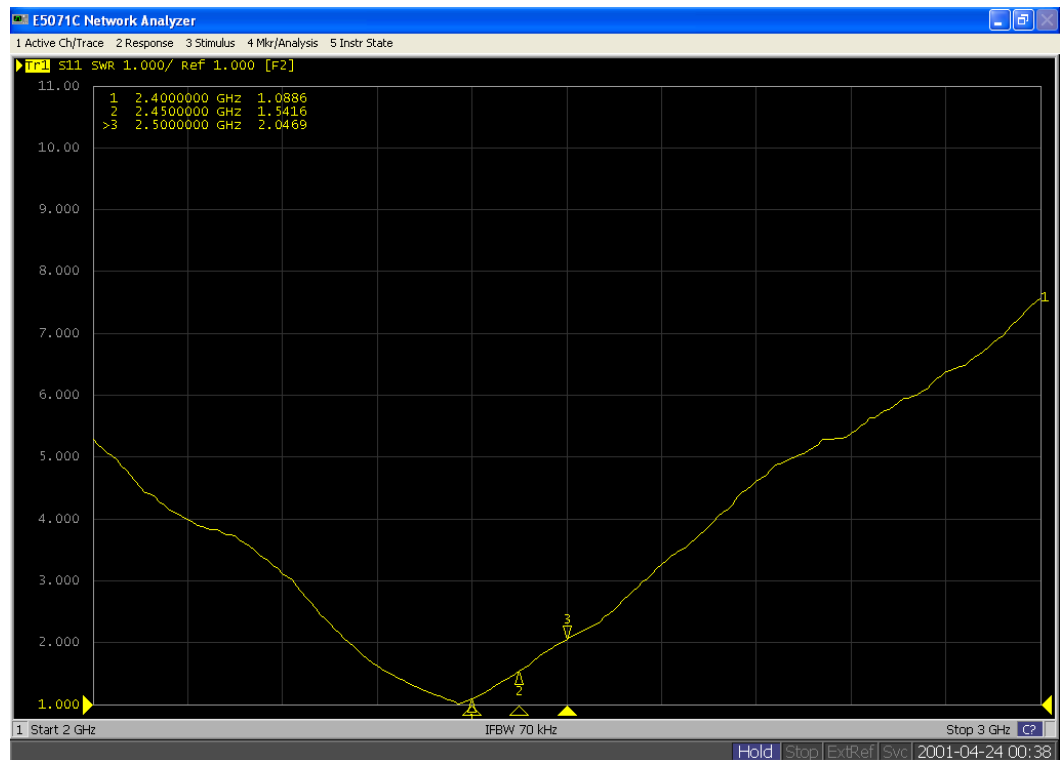
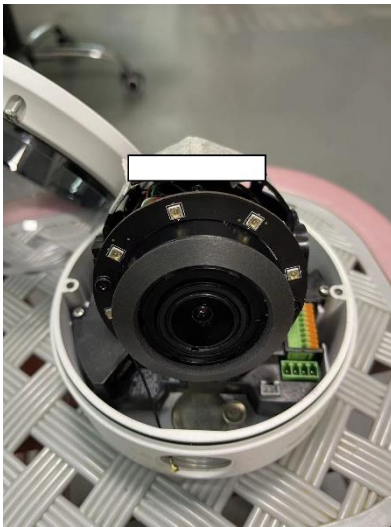
Description:



Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test



In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Electrical test

Frequency (MHz)	Eff. (%)
2400	54%
2410	54%
2420	54%
2430	53%
2440	55%
2450	55%
2460	53%
2470	52%
2480	52%
2490	51%
2500	51%

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

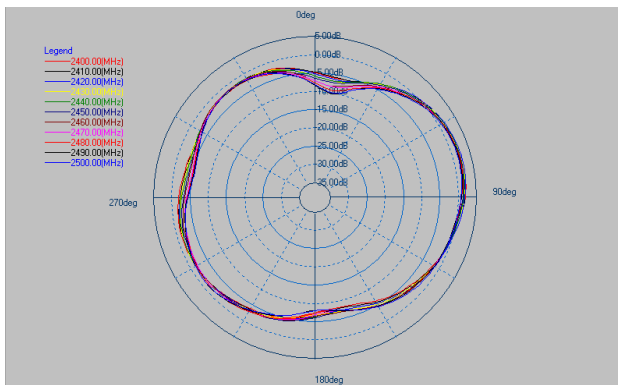
This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Description:

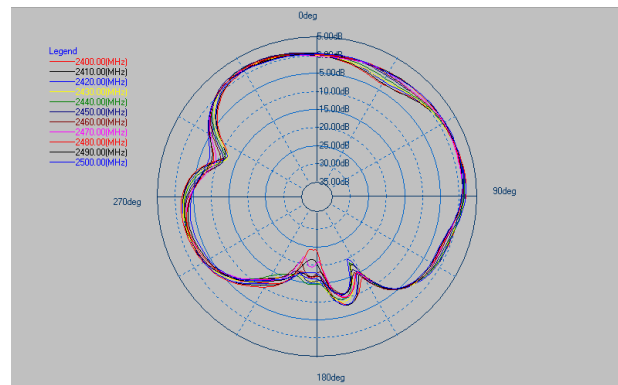
Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

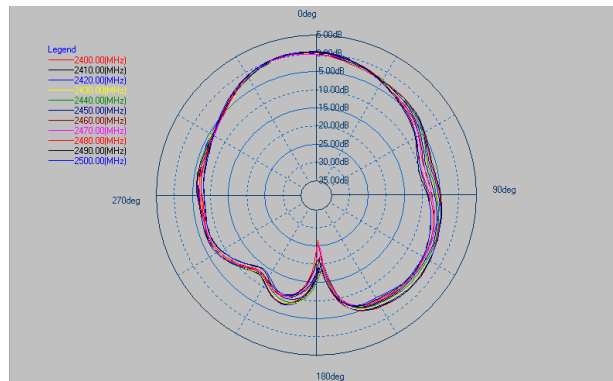
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

In the effort to improve our products, we reserve the right to make changes judged to be necessary.


CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo, and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

FAI

 Pulse a YAGEO company				<i>Measurement report for mechanical dimensions</i>											
Measurer:		Shi Xinhua			Product:			D-F		Tool Number:		/			
Date:		2025/3/26			Part version:			V01		No of samples:		5pieces			
Measuring device:		OGP			Drawing number:			TZ28843							
Supplier:		Pulse			Drawing version:			10							
ITEM	DIMENSION / SPECIFICATION					©	MEASUREMENT RESULTS (for each cavity)					Average	OK or NOK	Mark	
	Spec			Upper	Lower		No.1	No.2	No.3	No.4	No.5				
1	38.00	0.20	-0.20	38.20	37.80	-	37.900	38.000	37.800	38.000	38.000	37.94	OK		
2	10.000	0.20	-0.20	10.20	9.80	-	10.010	9.990	9.980	10.000	10.010	10.00	OK		
3	0.150	0.00	-0.15	0.15	0.00	-	0.150	0.140	0.150	0.150	0.150	0.15	OK		
4	200.000	2.00	-2.00	202.00	198.00	-	199.800	199.500	199.100	200.000	199.600	199.60	OK		
5	95.000	2.00	-2.00	97.00	93.00	-	94.500	95.000	95.000	95.200	95.000	94.94	OK		
6	50.000	2.00	-2.00	52.00	48.00	-	49.700	50.100	50.000	50.000	50.000	49.96	OK		

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo. and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

CPK

PART NUMBER:	TZ28843					PRODUCT:				
DESCRIPTION:						INSPECTED BY:				
SUPPLIER:	Pulse					DATE INSPECTED:				
Dim. Designator	FAI1	FAI2	FAI3	FAI4	FAI5	FAI6	FAI7	FAI8	FAI9	FAI10
UPPER LIMIT	38.20	10.20	202.00	97.00	52.00					
LOWER LIMIT	37.80	9.80	198.00	93.00	48.00					
Nominal	38.00	10.00	200.00	95.00	50.00					
MAX	38.020	10.030	200.200	95.300	50.200					
MIN	37.900	9.970	199.100	94.500	49.500					
AVERAGE	37.983	10.000	199.672	94.969	49.938					
X-bar-bar	37.983	10.000	199.673	94.967	49.938					
R-bar	0.077	0.032	0.683	0.583	0.450					
STD (s _x)	0.032	0.014	0.291	0.233	0.181					
Pp	2.092	4.834	2.291	2.856	3.684					
Ppu	2.272	4.844	2.666	2.904	3.798					
Ppl	1.912	4.823	1.916	2.809	3.570					
Ppk	1.912	4.823	1.916	2.809	3.570					
(S _{R-bar} /d ₂)	0.033	0.014	0.293	0.250	0.193					
Cp	2.026	4.905	2.273	2.663	3.452					
Cpu	2.201	4.916	2.645	2.707	3.559					
Cpl	1.851	4.895	1.901	2.618	3.345					
Cpk	1.851	4.895	1.901	2.618	3.345					
Sample #	FAI1	FAI2	FAI3	FAI4	FAI5	FAI6	FAI7	FAI8	FAI9	FAI10
1	37.90	9.98	199.50	95.00	49.90					
2	37.98	10.01	199.30	95.10	50.00					
3	38.01	9.98	199.60	95.00	50.00					
4	38.00	9.99	199.10	95.00	50.00					
5	37.95	10.00	199.80	94.70	50.00					
6	38.00	10.02	199.50	95.00	50.00					
7	38.00	10.00	200.00	95.10	49.70					
8	38.00	10.01	200.00	95.30	50.00					
9	37.95	9.99	199.50	95.20	50.00					
10	37.90	10.03	200.20	94.80	50.00					
11	38.01	10.00	199.50	95.00	50.00					
12	37.98	10.00	199.50	95.00	50.00					
13	37.95	10.00	199.80	94.50	50.00					
14	38.00	9.98	199.30	95.10	50.10					
15	37.93	9.97	199.50	95.00	49.60					
16	38.02	10.01	199.90	95.00	49.70					
17	38.00	9.99	199.80	94.70	50.00					
18	38.00	10.00	200.00	94.50	50.20					
19	38.01	10.00	199.50	94.50	50.00					
20	37.98	10.03	199.70	95.20	50.00					
21	38.02	10.01	199.90	95.00	49.50					
22	37.95	10.00	199.10	95.10	49.70					
23	38.00	9.99	200.00	95.10	50.10					
24	38.00	9.99	200.10	95.30	50.00					
25	38.00	10.00	199.80	94.80	50.00					
26	38.00	10.00	200.00	94.90	49.50					
27	38.00	10.00	199.50	95.30	50.10					
28	37.98	10.00	199.70	95.00	50.00					
29	38.00	10.02	199.30	95.10	50.00					
30	38.01	10.01	200.00	95.00	50.00					
31	37.95	9.99	199.60	95.20	49.70					
32	37.98	9.99	199.50	94.50	50.20					
33	37.95	10.00	199.90	95.00	50.00					

In the effort to improve our products, we reserve the right to make changes judged to be necessary.










CONFIDENTIAL AND PROPRIETARY INFORMATION

This document contains confidential and proprietary information of Pulse-Yageo. and is protected by copyright, trade secret and other state and federal laws. Its receipt or possession does not convey any rights to reproduce, disclose its contents, or to manufacture, use or sell anything it may describe. Reproduction, disclosure or use without specific written authorization of Pulse-Yageo is strictly forbidden.

Series: D-F
BT ANTENNA

Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Package Specification

Standard Operation Sheet/标准操作指南							
Part Name/No. 产品名称/编号:	Process Name 工序名称:	Revision 版本:	Effective Date 生效日期:	Change Description 变更内容:	PE	QE	PRD
D-F BT ANT TZ28843	包装	A	A	Initial release			
Standard Work Layout/标准操作工位:							
							
图1	图2	图3	图4	图5	图6	图7	
Step	Description of Work Content/操作内容描述	Step	Description of Work Content/操作内容描述				
1	如图1/2, 将50pcs 产品放在一起, 用皮筋/泡棉将端子头包扎在一起, 在将50pcs 产品放入PE袋内, 并贴上标签, 标签位置及内容如图3/4所示; 在纸箱底部放一个泡棉隔板, 然后将60袋产品放入纸箱, 即3000pcs/ 箱, 然后再顶部在放一个泡棉隔板, 如图5/6/7。	3	将出货标签贴附在外箱左上角, 标签位置及内容如图8/9所示; 零箱, 左边贴上零箱标签。				
2	将外箱用透明胶带封好, 上下封箱要封成工字型, 也就是所有缝隙需要封胶带, 如图8所示						
Critical Points&Tool Information/操作要点及夹具信息							
1. 只有受过培训和确认合适的员工可以执行本操作。 2. 假如发生异常问题, 联系线负责人, 维护人或主管。 3. 在打包作业之前, 操作员必须确认打包的数量是否正确。包装外箱上产品的代号必须与工单上的一致。							
Tool&Critical Parameter/夹具与重点参数检查							
Tool required(使用工具): Tool Type(夹具型号): / Safety Device(安全设备):							
 							
图8	图9						