



Pulse

a YAGEO company

RoHS & Halogen Free & REACH Compliance

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 |
| | | | |
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Pulse

a YAGEO company

新加坡商普思電子有限公司

PULSE ELECTRONICS (SINGAPORE) PTE LTD

No. 99 Huo Ju Road, Suzhou New District Jiangsu Province, suzhou 215009, P.R. China

Description:

Series: D-F

BT ANTENNA

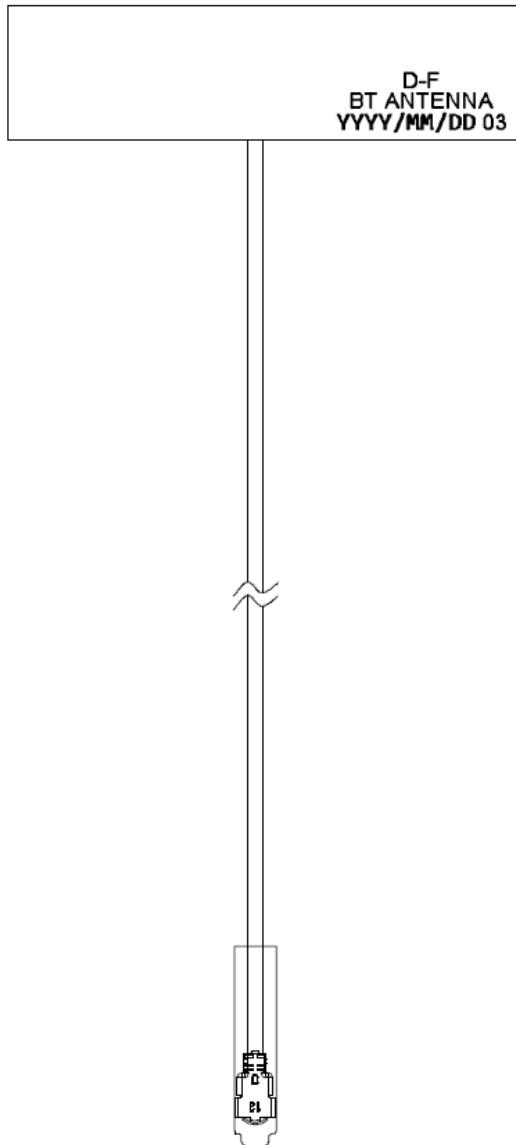
Customer P/N: 315B0FXX2000
Manufacturer P/N: TZ28843

Revisions

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

Description:

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 | near |
| 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 |

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Description:

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

MECHANICAL DRAWING

| A | B | C | D | E | F | G |
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| MOD | REVISION DESCRIPTION | DATE / EDITOR | | | | |
| 10 | MP Realease | 2025.03.31 / Alvin | | | | |
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Description:**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.

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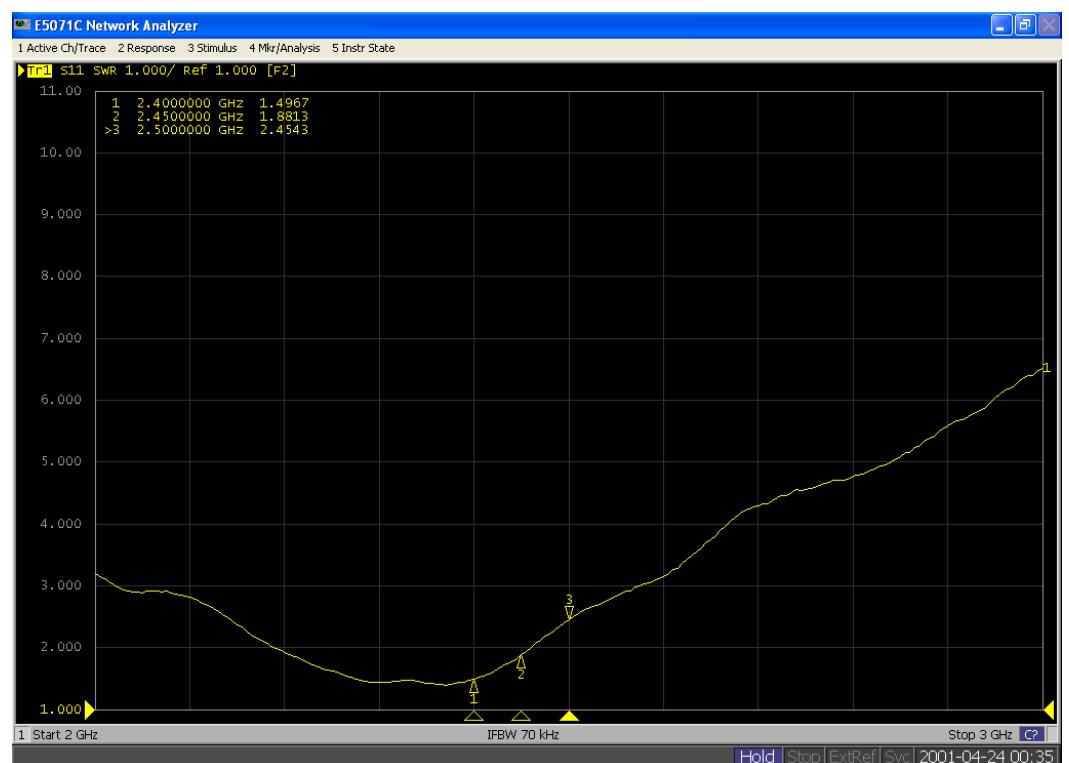
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Description:

Series: D-F
BT ANTENNA

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

Electrical test



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Description:

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% |

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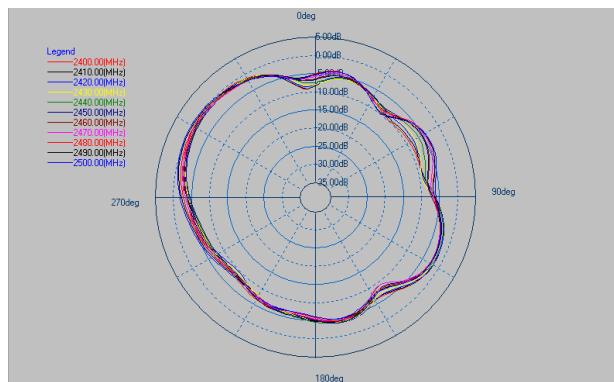
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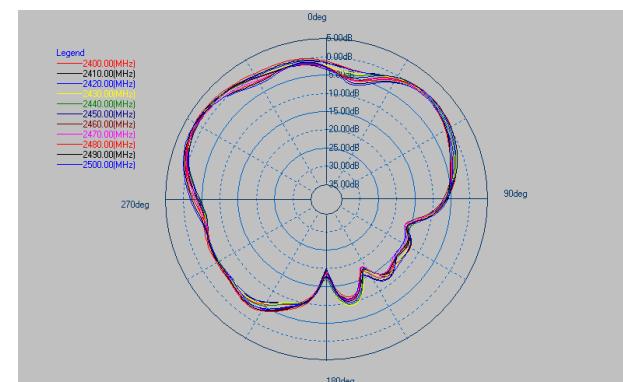
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BT ANTENNA

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

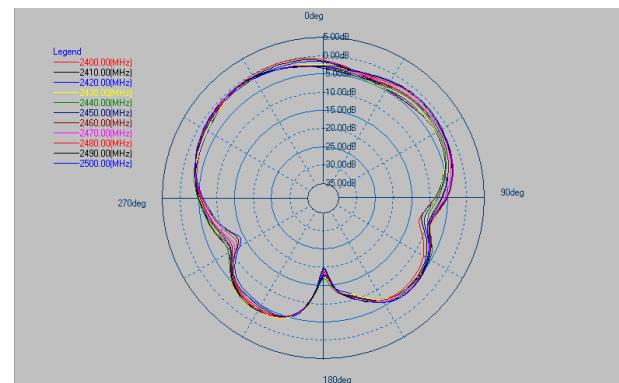
CHARTS



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.

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Electrical test



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Description:

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% |

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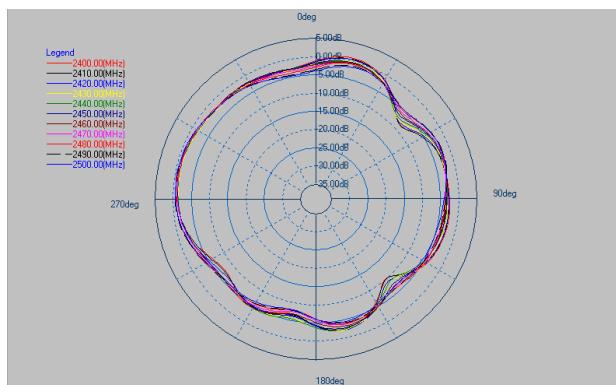
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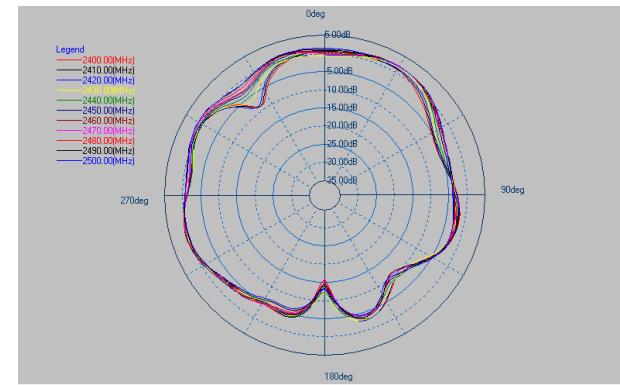
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BT ANTENNA

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

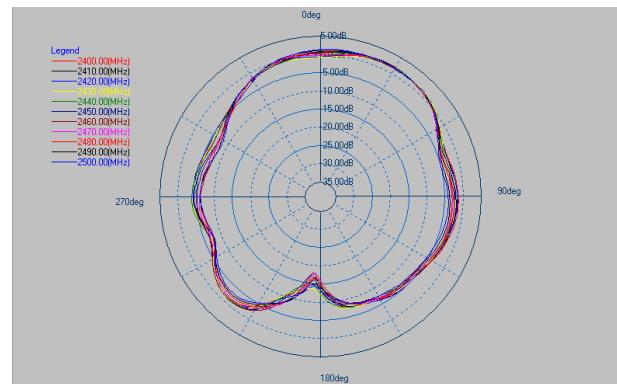
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

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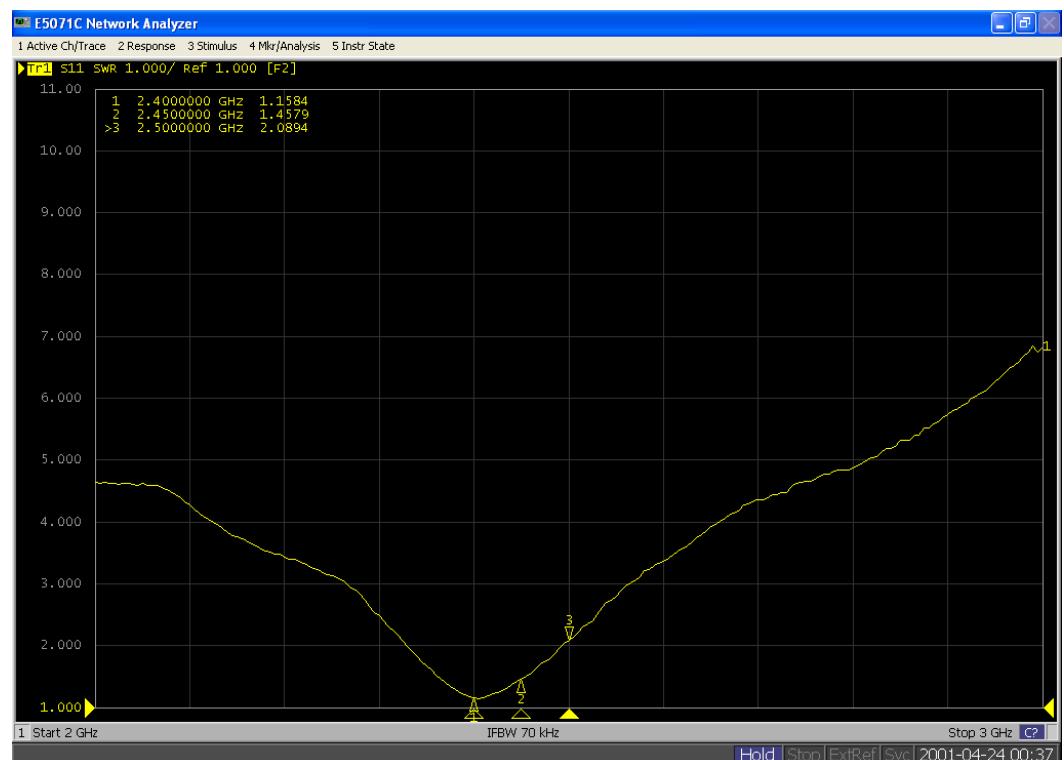
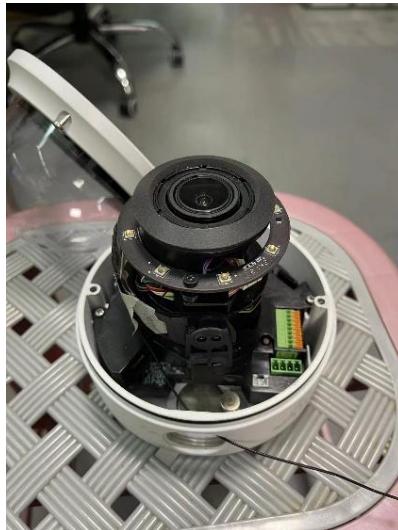
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Electrical test



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Description:

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% |

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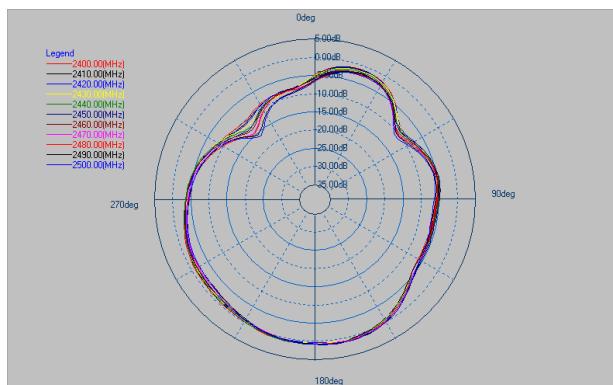
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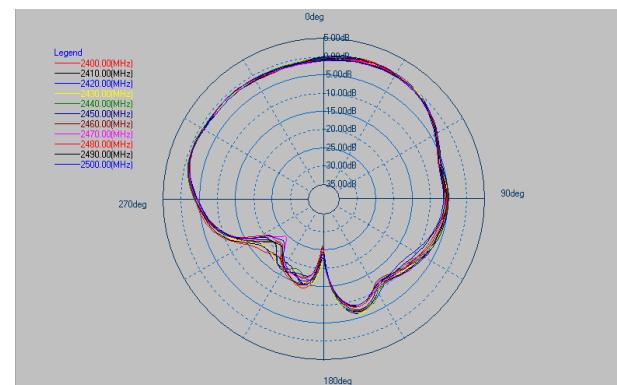
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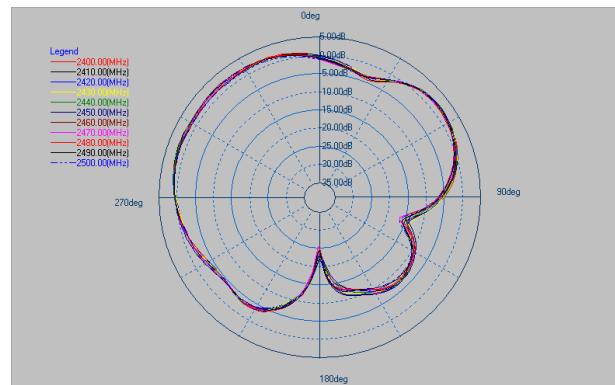
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

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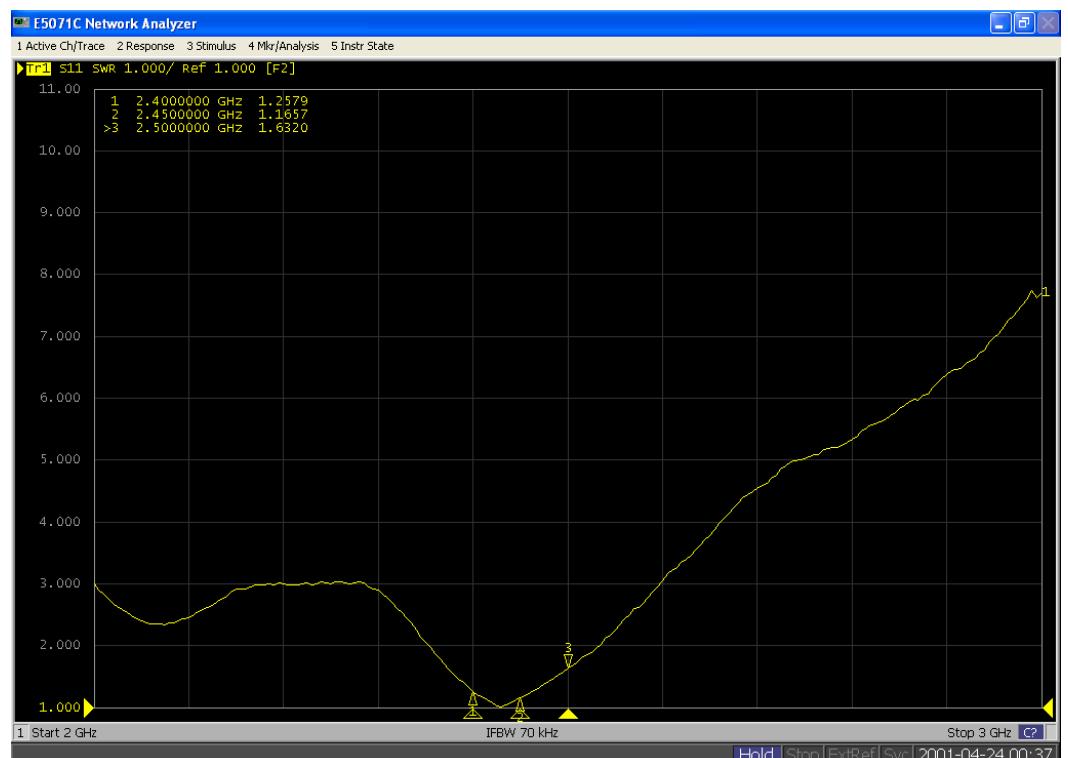
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Electrical test



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Description:

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% |

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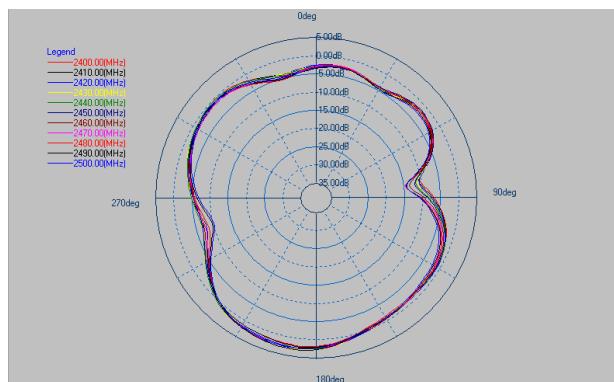
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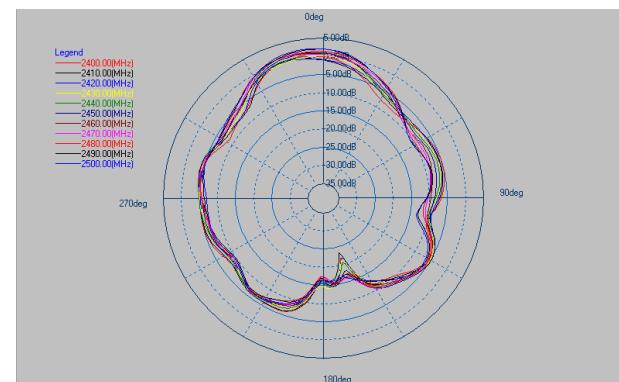
Series: D-F
BT ANTENNA

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

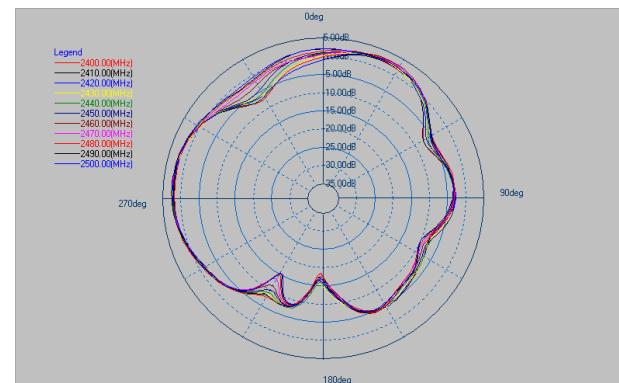
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

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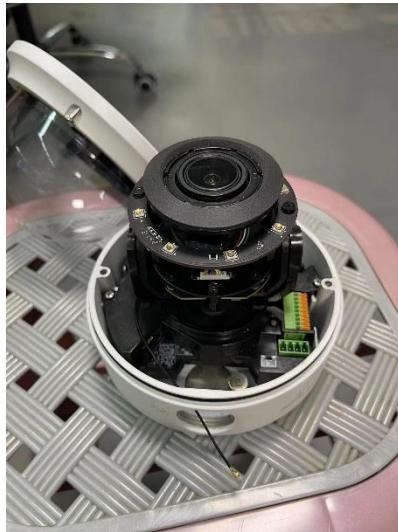
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Description:

Series: D-F BT ANTENNA

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

Electrical test



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Description:

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% |

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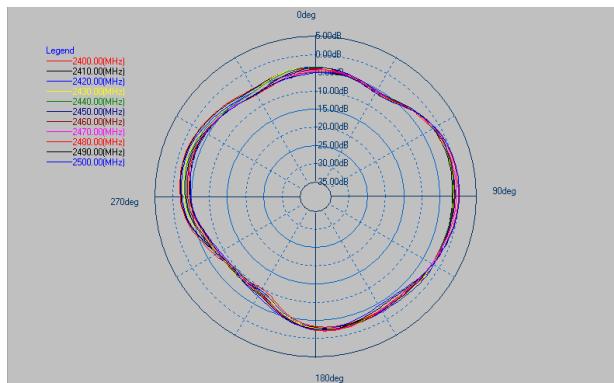
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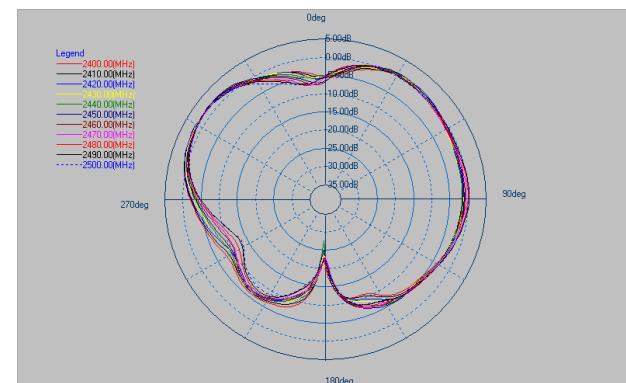
Series: D-F
BT ANTENNA

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

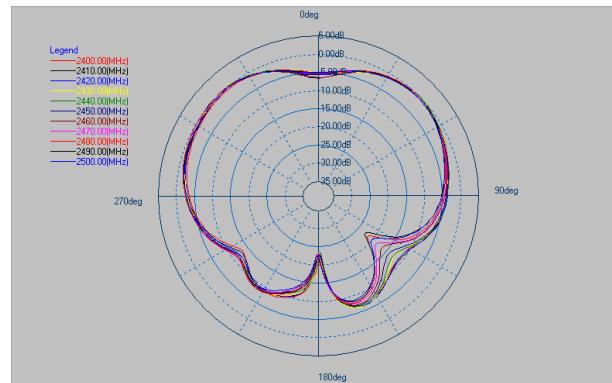
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

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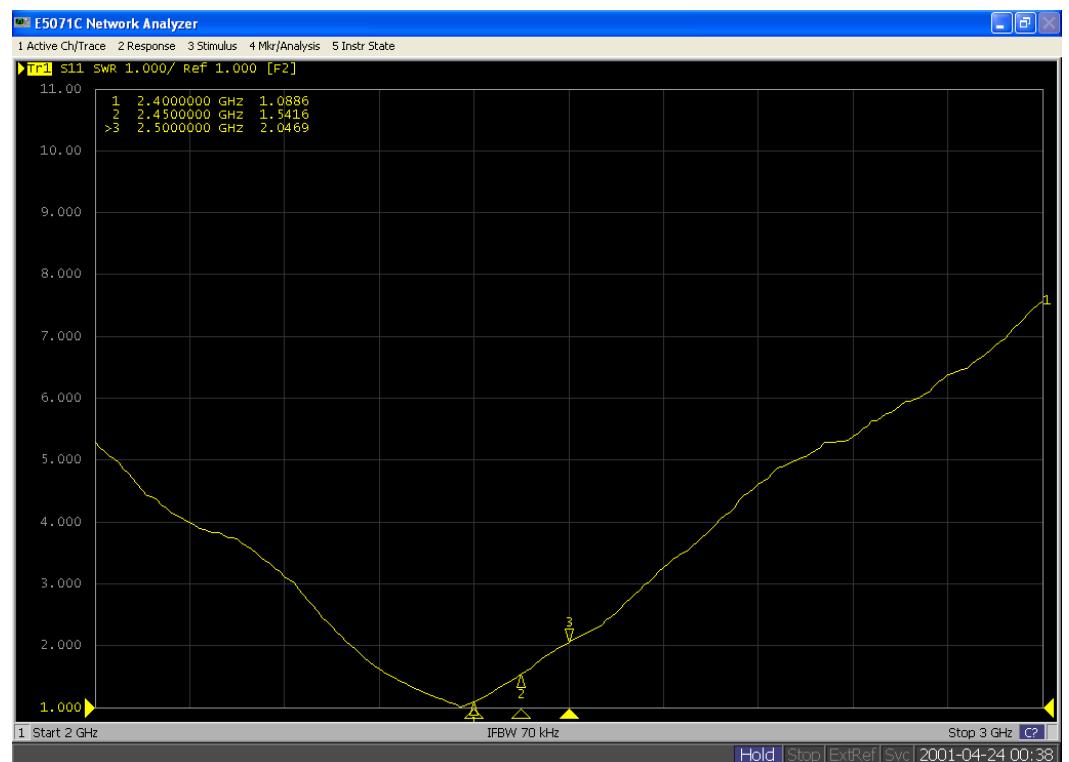
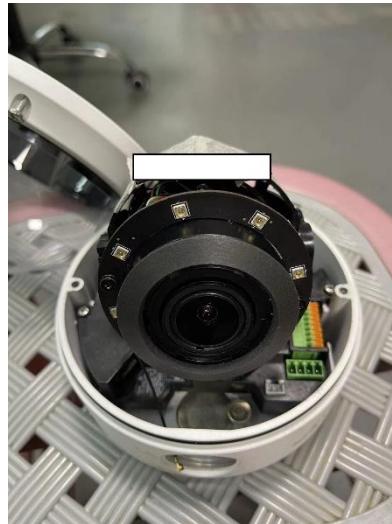
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Description:

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BT ANTENNA

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Manufacturer P/N: TZ28843

Electrical test



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Description:

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% |

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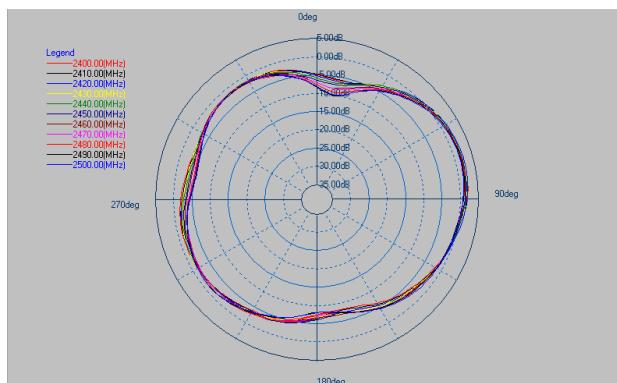
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Description:

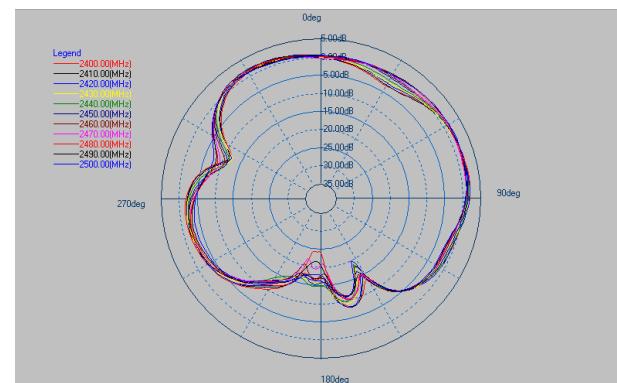
Series: D-F
BT ANTENNA

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

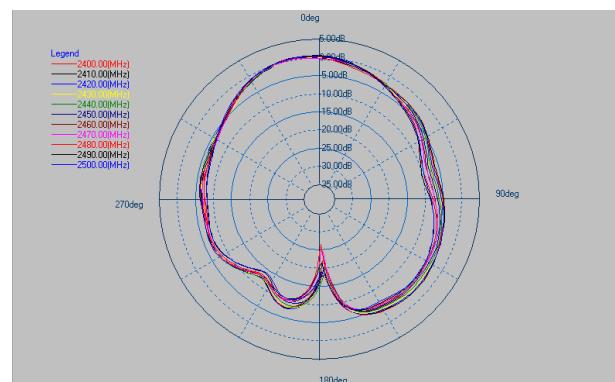
CHARTS



X-Y Plane



Z-Y Plane



Z-X Plane

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Description:

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

FAI

|  Pulse a YAGEO company | | Measurement report for mechanical dimensions | | | | | | | | | | | |
|--|---------------------------|---|---------|--------|----------------|---------------------------------------|---------|---------|---------|---------|---------|-----------|------|
| 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 |

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Description:

Series: D-F BT ANTENNA

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

CPK

| PART NUMBER: | TZ28843 | | | | PRODUCT: D-F | | | | | |
|--------------------------|---------|--------|---------|--------|------------------------------|------|------|------|------|-------|
| DESCRIPTION: | | | | | INSPECTED BY: wangliangliang | | | | | |
| SUPPLIER: | Pulse | | | | DATE INSPECTED: 26-Mar-25 | | | | | |
| 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 _s) | 0.032 | 0.014 | 0.291 | 0.233 | 0.181 | | | | | |
| P _p | 2.092 | 4.834 | 2.291 | 2.856 | 3.684 | | | | | |
| P _{pu} | 2.272 | 4.844 | 2.666 | 2.904 | 3.798 | | | | | |
| P _{pl} | 1.912 | 4.823 | 1.916 | 2.809 | 3.570 | | | | | |
| P _{pk} | 1.912 | 4.823 | 1.916 | 2.809 | 3.570 | | | | | |
| (s _{R-bar/d2}) | 0.033 | 0.014 | 0.293 | 0.250 | 0.193 | | | | | |
| C _p | 2.026 | 4.905 | 2.273 | 2.663 | 3.452 | | | | | |
| C _{pu} | 2.201 | 4.916 | 2.645 | 2.707 | 3.559 | | | | | |
| C _{pl} | 1.851 | 4.895 | 1.901 | 2.618 | 3.345 | | | | | |
| C _{pk} | 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 | | | | | |

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Description:

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:



| 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 | | Tool&Critical Parameter/夹具与重点参数检查 |
|---|--|---|
| 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 required(使用工具): Tool Type(夹具型号):/ Safety Device(安全设备): |
| | | |