PA1590MJ4G-100-SMD-P

Engineering Specification

1. Typical Electrical Properties

| Characteristics | Specification | Unit | Conditions |
|--------------------------------------|---------------|--------|--------------------------|
| GPS Frequency | 1575.42 ± 2 | MHz | On 50x50 mm Ground Plane |
| Glonass Frequency | 1602 ± 2 | MHz | On 50x50 mm Ground Plane |
| GPS Patch Gain at Zenith | 0.5 typ. | dBic | Center Frequency |
| Glonass Patch Gain at Zenith | 1.2 typ. | dBic | Center Frequency |
| Polarization | RHCP | | On 50x50 mm Ground Plane |
| Frequency Temperature Coefficient | 0±20 | ppm/°C | -40°C to +85°C |

PA1590MJ4G-100-SMD-P, G : Green parts (RoHS compliance)

-100 are the code of project number, -SMD SMD type

2. Patch Antenna Performance and Characteristic Data on 50x50

mm Ground

2.1 Smith Chart/Return Loss







4. Typical Electrical Properties on INPAQ Test Ground

| Characteristics | Specification | Unit | Conditions | | | | |
|--|-----------------|--|--|--|--|--|--|
| Patch Center Frequer | 1592.80 ± 3 | MHz | By Test on INPAQ Ground Plane | | | | |
| S11 | <-20 | dB | By Test on INPAQ Ground Plane | | | | |
| Polarization | RHCP | | | | | | |
| Frequency Temperatu Coefficient | re 0±20 | ppm/ºC | -40°C to +85°C | | | | |
| | | | | | | | |
| NI ESS OTHER SPECIFIED T | OLERANCES ON : | | | | | | |
| =± X.X=± X.XX=± NGLES=± HOLEDIA=± | | INPAQ TECHNOLOGY CO., LTD. | | | | | |
| CALE : | JNIT:mm | THIS DRAWINGS | S AND SPECIFICATIONS ARE THE PROPERTY OF INPAG | | | | |
| RAWN BY:詹雅萍(| CHECKED BY:鄭大福 | TECHNOLOGY CO., LTD. AND SHALL NOT BE REPRODUCED OR U THE BASIS FOR THE MANUFACTURE OR SALE OF APPARA | | | | | |
| ESIGNED BY:許瑞麟 | APPROVED BY:曾源標 | DEVICES WITHOUT PERMISSION | | | | | |
| ITLE : PA1590MJ4G-100-SMD-P Engineering Specification | | DOCUMENT | | | | | |
| | | NO. | P0 | | | | |
| | | | PAGE 3 OF 7 | | | | |



2014/06/18



| DRAWN BY:詹雅萍 | CHECKED BY:鄭大福 | THE BASIS FOR | THE MANUFACTURE OR SALE OF APPARATUS OF | | | | |
|--------------------------|-----------------|----------------------------|---|---|----|------|------|
| DESIGNED BY:許瑞麟 | APPROVED BY:曾源標 | DEVICES WITHOUT PERMISSION | | | | | |
| TLE:PA1590MJ4G-100-SMD-P | | DOCUMENT | ENS00072060 | | 60 | SPEC | REV. |
| Engineering Spec | ification | NO. | EN3000072900 | | Р | P0 | |
| | | | PAGE | 5 | OF | 7 | |



8. Recommendable Reflow Soldering

9. Delivery mode 24 -0,1 +0,1 2-0 +0,05 25 0.5 -0,05 +0,1 4-0,1 4 正圓 C1.0 \$ -φ φ φ -\$ Φ [P 00 32 4 4 \$ \$ + 0.3 .5 +0,1 5-0,1 +0,1 18.7 -0,1 0 0 **10. Taping Reel Dimensions** ά 肏 A B C D ±2.0 ±4.0 ±0.2 ±0.2 ±2.0 ±2.0 330 100 13.2 2 10.75 32.4 11. Quantity of Products in the Taping Package (1)Standard quantity : 300Pcs/Reel

| UNLESS OTHER SPECIFIED TOLERANCES ON : | | | | | | | |
|--|-----------------|--|---|-----------|-------------------------|------------|--|
| X=± X.X=± | X.XX=± | INPAQ TECHNOLOGY CO., L | | | | | |
| ANGLES=± | HOLEDIA=± | | | | | | |
| SCALE : | UNIT:mm | THIS DRAWINGS | NGS AND SPECIFICATIONS ARE THE PROPERTY OF IN | | | Y OF INPAQ | |
| DRAWN BY:詹雅萍 | CHECKED BY:鄭大福 | TECHNOLOGY CO., LTD. AND SHALL NOT BE REPRODUCED OR USE THE BASIS FOR THE MANUFACTURE OR SALE OF APPARATU | | | OR USED AS ARATUS OR | | |
| DESIGNED BY:許瑞麟 | APPROVED BY:曾源標 | DEVICES WITHO | WITHOUT PERMISSION | | | | |
| TITLE : PA1590MJ4G-100 | -SMD-P | DOCUMENT ENS000072060 SPEC | | SPEC REV. | | | |
| Engineering Spec | cification | NO. | | NO. P0 | | | |
| | | | PAGE | 7 | OF | 7 | |

7 PAGE OF

2014/06/18