PA1585MJ6D-154-1ZM

ENGINEERING SPECIFICATION

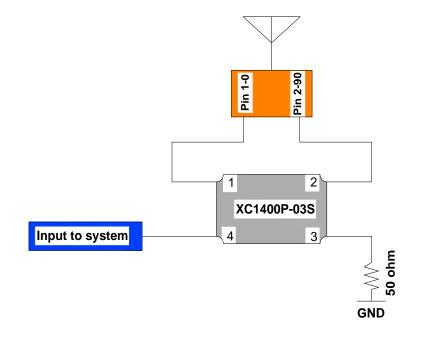
1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions	
General Receiving Frequency Range	1559~1606	MHz		
Center Frequency	1584 <u>+</u> 5	MHz		
Gain at Center Frequency	2.5 typ.	dBic		
Axial Ratio at Center Frequency	< 3	dB	Note: (1)	
S ₁₁ at Center Frequency	≦-10	dB		
Impedance	50	Ohm		
Polarization	RHCP			
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C	

Note: (1) Patch antenna is located on 70x70mm ground plane and measured with coupler.

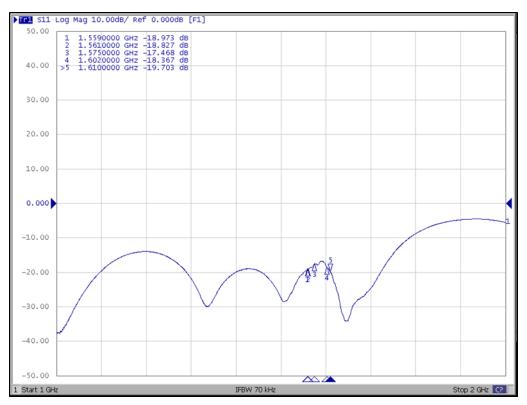
2. Coupler Electrical Specifications and Circuit

Hybrid Coupler XC1400P-03S	Frequency	Isolation	Insertion Loss	VSWR
	1563-1588 MHz	23 dB	0.32 dB	1.20

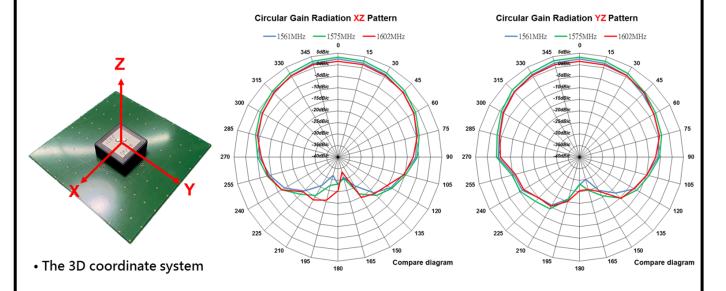


UNLESS OTHER SPECIFIED TOLERANCES ON:				
$X=\pm 0.2$ $X.X=\pm 0$	$X.XX = \pm 0.2$	\mathbb{Q}_{2}	INPAQ TECHNOLOGY C	O., LTD.
ANGLES=±1	HOLEDIA=±0.1			
SCALE:	UNIT: mm		S AND SPECIFICATIONS ARE THE PR	-
DRAWN BY: 王瑞娟	CHECKED BY:李守仁		DLOGY CO.,LTD.AND SHALL NOT BE REPR E BASIS FOR THE MANUFACTURE OF	
DESIGNED BY: 許瑞麟	APPROVED BY: 黃月碧	APPARATUS O	R DEVICES WITHOUT PERMISSION	
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3. Patch Antenna Performance and Characteristic Data 3-1 S-parameter

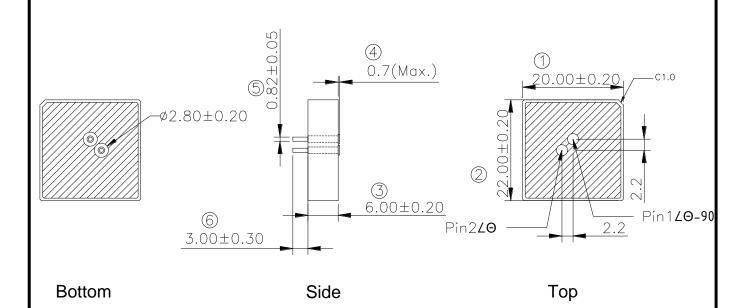


3-2 2D Gain Pattern



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4. Dimension



Note: These balloons are important dimension, the others are reference dimension. For the electrical characteristics adjustment, silver electrode might be trimmed. This will not affect antenna performance.

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5. Explanation of Appendix

PA1585MJ6D-154-1ZM

(1)(2)(3)

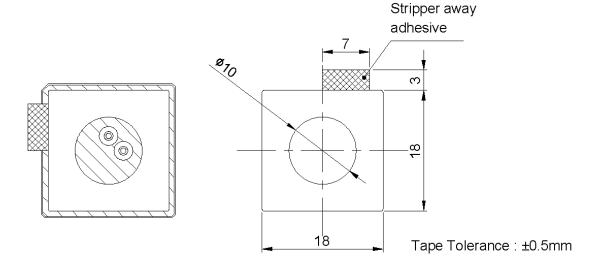
- (1) "1" denotes 3.0 mm pin length
- (2) Adhesive Tape "Z" denotes 17x17mm Nitto 5000NS

Adhesive transfer tape specification

2.1 Thickness: 0.16mm

2.2 Release liner: 0.1mm (typ.)

2.3 Dimension: mm



(3) Option appendix "M" denotes marking needed

Marking configuration

- 3.1 Logo **G** for INPAQ logo
- 3.2 Type G for green product antenna
- 3.3 Three digits 154 are the code of our project number



Patch Top Electrode

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6. Soldering

Manual Soldering(By Iron) - Pb free

Soldering Temperature: 350°C max, 5sec max. (Solder: Sn/Ag/Cu: 96.5/3.0/0.5) Must comply with above soldering condition to prevent from degradation of antenna performance.

7. Caution and Warranty

- (1) In order to slow down the oxidation and sulfurization from air onto silver, the products are sealed by vacuum packaging. It is ok to use them within 12 months of delivery.
- (2) Once the package is open, please assemble them as soon as possible. If there are products left for future assembly, please repack and reseal them within 48 hours after opening.
- (3) Please recheck the solderability before using if the products are over 12 months of delivery, no matter they are originally sealed or resealed.
- (4) The silver may eventually become tarnish because of oxidation and sulfurization, however, it won't affect the electrical performance, but only solderability. Thus, please assemble them as early as possible.

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