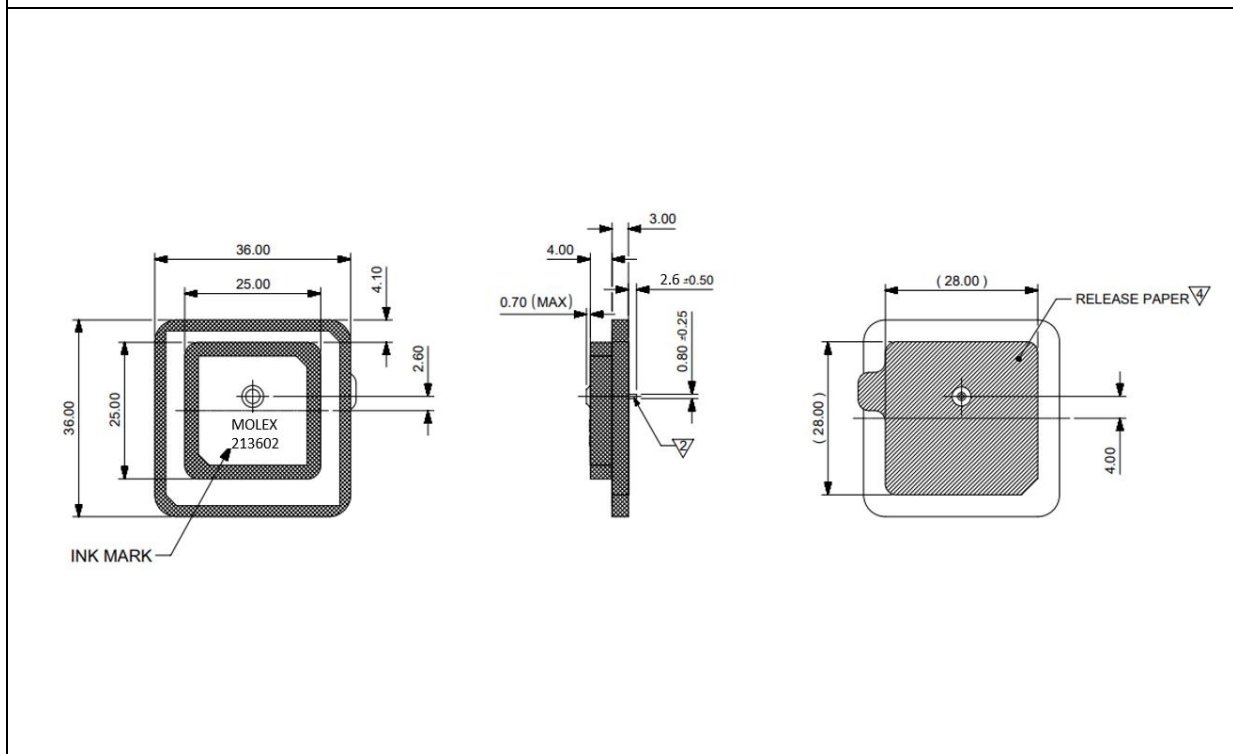


## 36x36mm L1+L2 PATCH CERAMIC ANTENNA

### 1.0 STRUCTURE AND MATERIAL

No.	DESCRIPTION	STRUCTURE AND MATERIAL
1.1	Antenna Substrate	Dielectric Constant
1.2	Pin	Copper and tinplated
1.3	Electrode	Ag Plated
1.4	Ground Base	Ag Plated
1.5	Adhesive type	NITTO 5000

### STRUCTURE (UNIT: MM)

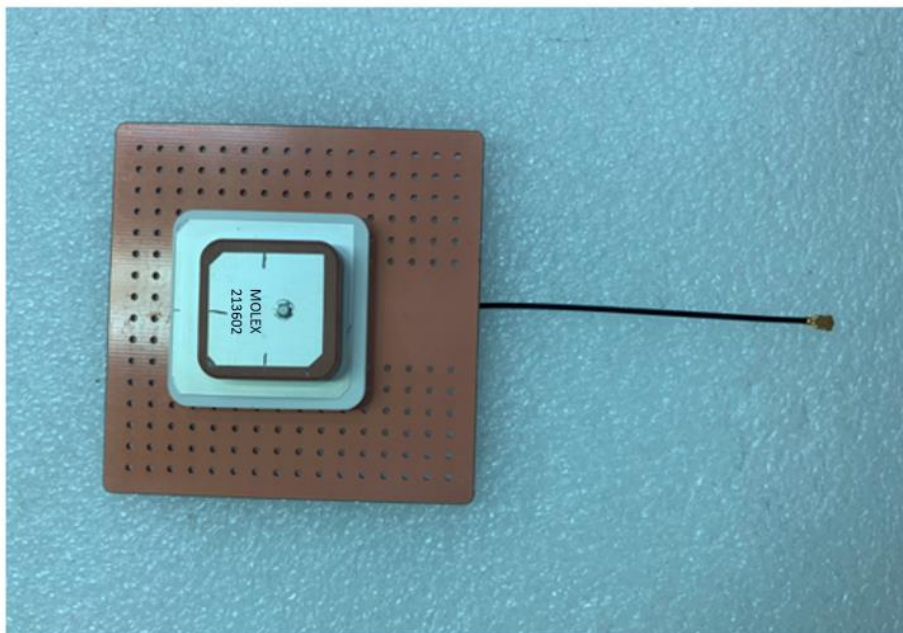


REVISION: <b>1</b>	ECR/ECN INFORMATION: EC No: DATE: 2019/07/09	TITLE: <b>36X36MM L1+L2 GPS PATCH CERAMIC ANTENNA DATA SHEET</b>	SHEET No. <b>1 of 5</b>
DOCUMENT NUMBER: <b>2136020001</b>	CREATED / REVISED BY: <b>Cheng Kang</b>	CHECKED BY: <b>Liu Hai</b>	APPROVED BY: <b>Andy Zhang</b>

## 2.0 ELECTRICAL CHARACTERISTICS

NO.	ITEM	SPECIFICATIONS	
		L1	L2
2.1	Frequency	1575.42MHz	1227.6Hz
2.2	Average Efficiency	>70%	>50%
2.3	S11	<-10dB	
2.4	V.S.W.R.	≤1.5	
2.5	Gain	5.3dBi	1.6dBi
2.6	Axial Ratio	<2dB	<3dB
2.7	Polarization	Right-Handed Circular	
2.8	Impedance	50 Ω	
2.9	Temperature Coefficient	0±10ppm/C°	

## 3.0 TEST ENVIRONMENT



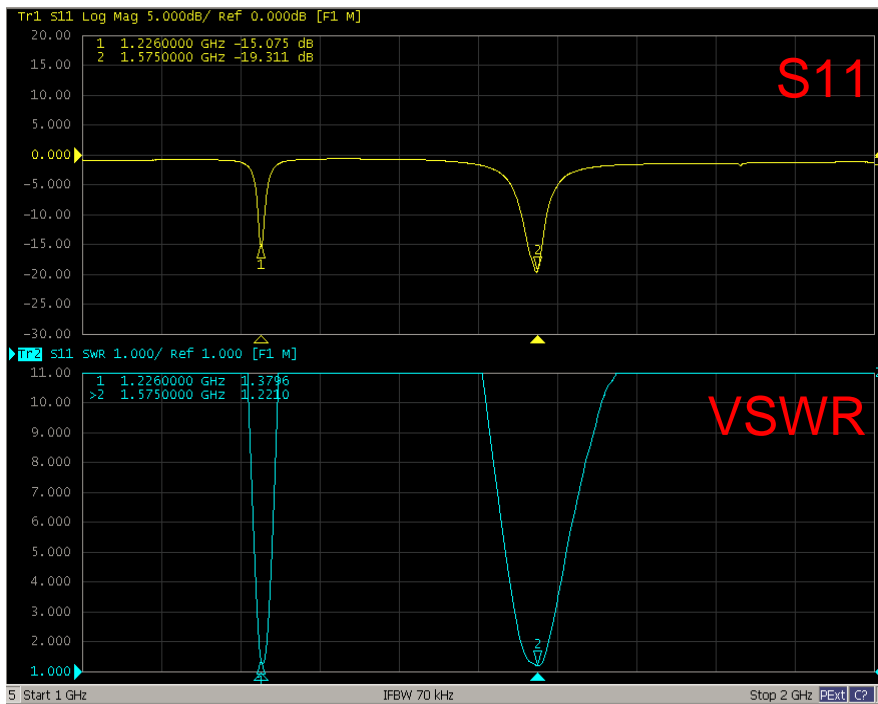
PCB Size 70\*70mm

Antenna mounted on the 70\*70mm GND

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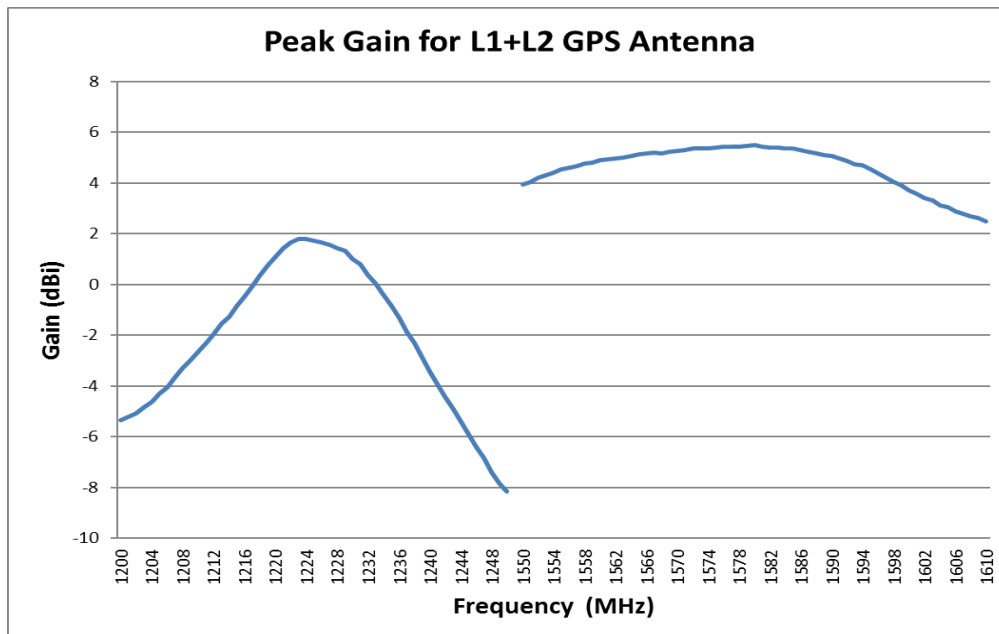
## 4.0 CHARACTERISTIC CURVE

### ➤ VSWR & S11



S11 and VSWR for antenna measured in free space.

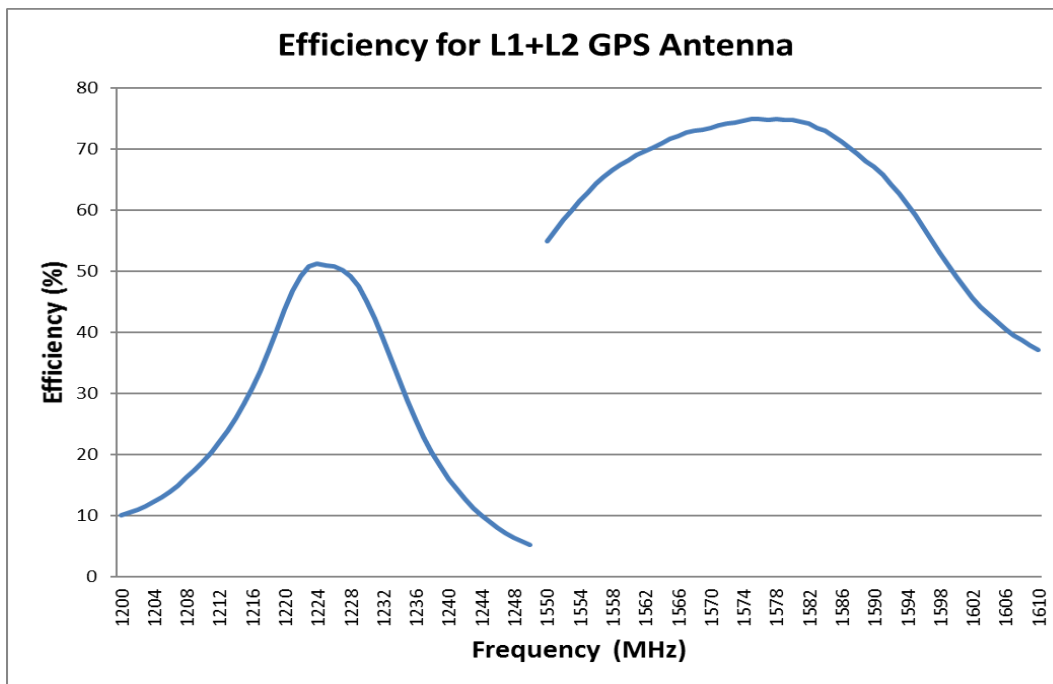
### ➤ Peak Gain



Peak Gain for antenna measured in free space.

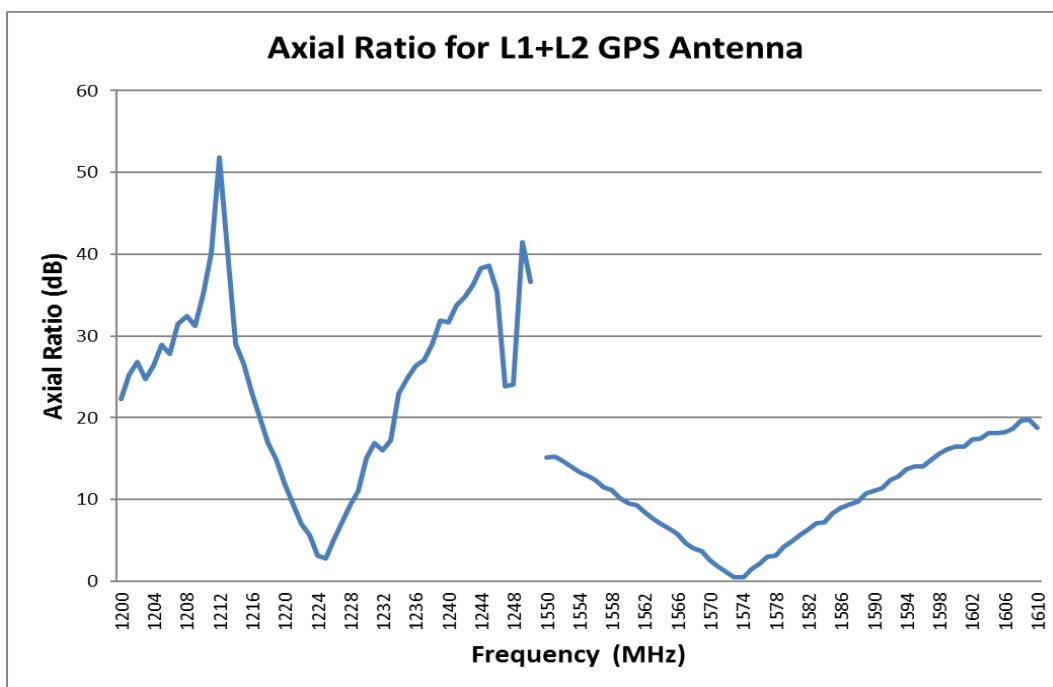
REVISION: <b>1</b>	ECR/ECN INFORMATION: EC No: DATE: 2019/07/09	TITLE: <b>36X36MM L1+L2 GPS PATCH CERAMIC ANTENNA DATA SHEET</b>	SHEET No. <b>3 of 5</b>
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➤ **Efficiency**



Efficiency for antenna measured in free space.

➤ **Axial Ratio**



Axial Ratio for antenna measured in free space.

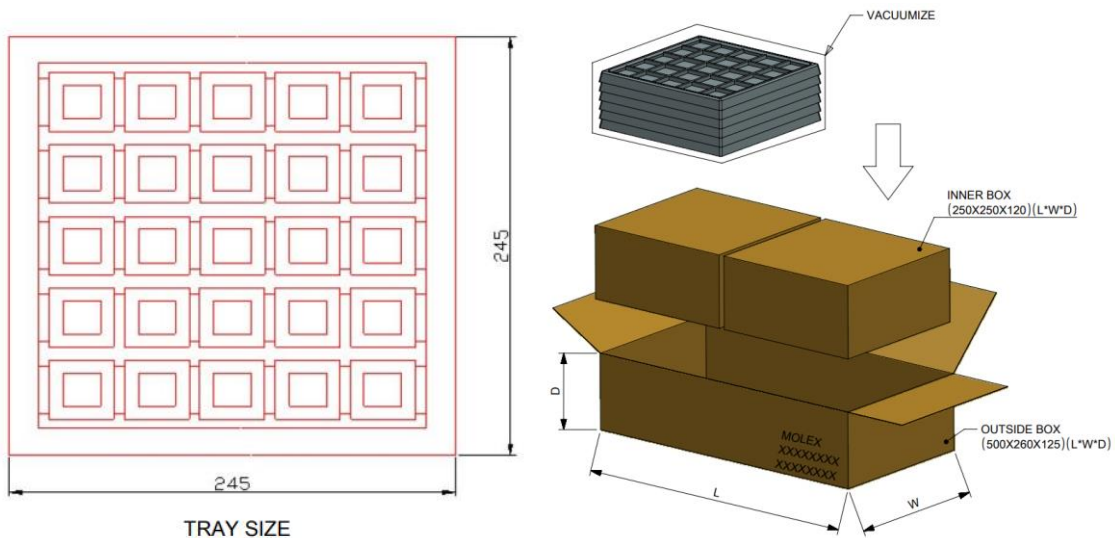
REVISION: <b>1</b>	ECR/ECN INFORMATION: EC No: DATE: 2019/07/09	TITLE: <b>36X36MM L1+L2 GPS PATCH CERAMIC ANTENNA DATA SHEET</b>	SHEET No. <b>4 of 5</b>
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## 5.0 ENVIRONMENT CONDITION

1	Working Temp	-40°C~+85°C
2	Storage Temp	-40°C~+85°C
3	Relative Humidity range	55~75%RH

## 6.0 PACKING

Package Name	Quantity
Tray	(25) pcs/tray
Inner Box	(200) pcs/box
Outer Box	(400) pcs/box



## 7.0 NOTE

1. This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
2. Electrostatic sensitive device. Observe precautions for handling.
3. If you plan to re-use the products that be taken out from packaging. Suggest to repacked them within 48 hours by re-seal to prevent oxidation!

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