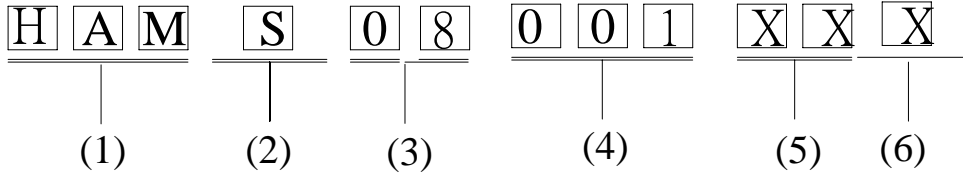


External Antenna for HAMS08001XXX

1. Explanation of Part Number



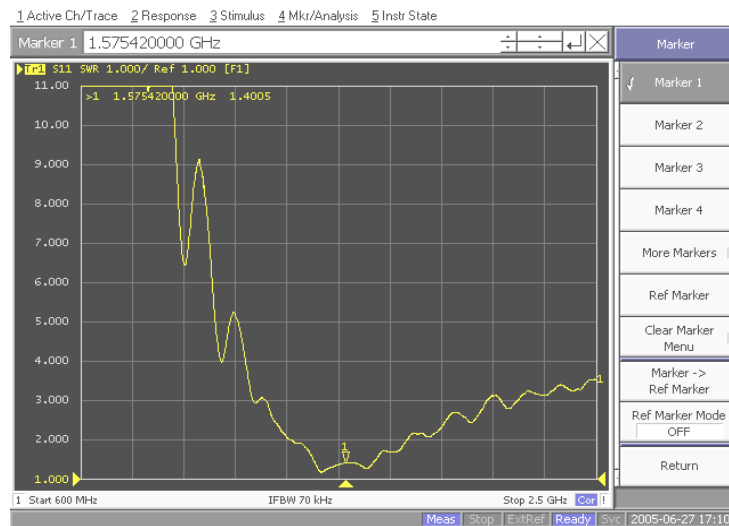
- (1) Product type : Helical Antenna Module
- (2) System code :S for Single-band
- (3) Customer code
- (4) Series code
- (5) Appearance code
- (6) Suffix

2. Electrical properties:

Item	Property
Frequency Range	1575.42MHz
Impedance	50 Ω (Typ.)
VSWR <small>(see Fig 1)</small>	≤ 2.0
Gain	0dBi (Max.)
Polarization	Vertical
Radiation pattern	Near omni-directional in the horizontal plane

Checking Point	
Frequency (MHz)	1575.42MHz
VSWR	≤ 2.0

Figure 1. VSWR



UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ± X.X = ± X.XX = ±

ANGLES = ± HOLEDIA = ±

SCALE : UNIT : mm

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DESIGNED BY : 張明貴 APPROVED BY : 許倬綱



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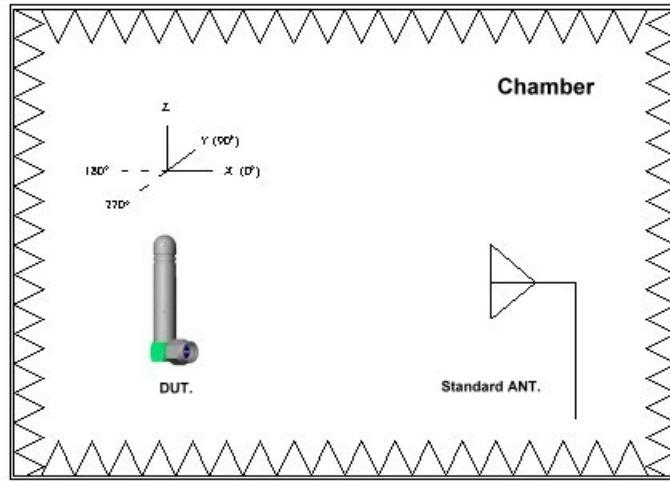
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Figure 2. Gain

The Gain pattern was measuring in INPAQ's FAR-field chamber . DUT will be placed on the table of rotator , a standard horn antenna and Vector Network Analyzer was using to collected data.

(Please contact to INPAQ for more detail)

- **Measuring factors definition**

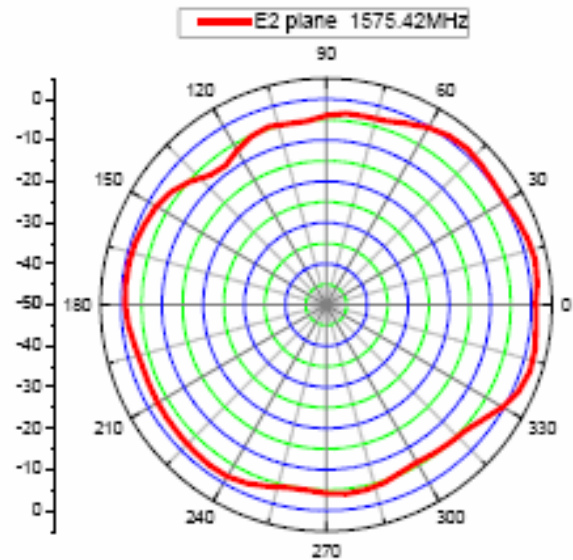
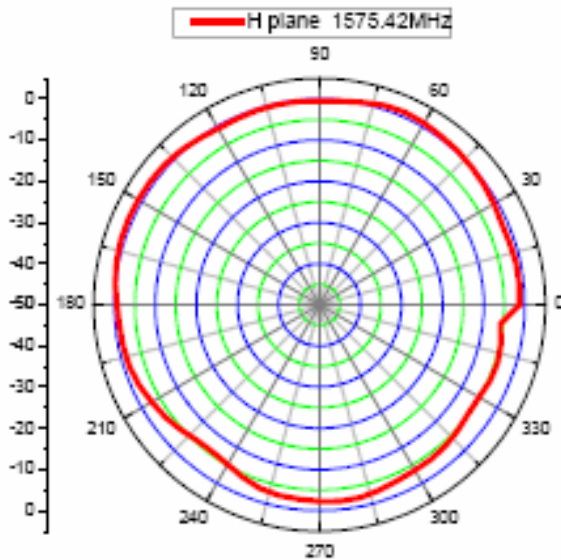


Unit dBi	H-plane		E-plane	
	Max	Average	Max	Average
1575.42	1.15	-1.36	2.16	-1.45

Gain and Radiation Pattern

H_cut

E2-Cut:



UNLESS OTHER SPECIFIED TOLERANCES ON :
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3. Mechanical properties:

Item	Property
Color	Black (Typ.)
Plastic Cover	TPU or TPE
Antenna Base	SMA R/A improved type
Coil	Phosphor Bronze

■ Operating Temperature : -20~+65°C

■ Storage Temperature : -40~+80°C

4. Environmental Characteristics:

No	Item	Test Condition	Specification
4-1	High Temperature/Humidity Operating test	1.Temperature : +60±2°C. 2.Humidity : 90~95u RH 3.Time : 24hrs	1. Normal functional test must be satisfied after the test. 2. No material deformation is allowed.
4-2	Low Temperature/Humidity Operating test	1.Temperature : -20±2°C. 2.Humidity : 0u RH 3.Time : 24hrs	
4-3	High Temperature/Humidity Storage	1.Temperature : +80±2°C. 2.Humidity : 90~95u RH 3.Time : 88hrs	
4-4	Low Temperature/Humidity Storage	1.Temperature : -40±2°C. 2.Humidity : 0u RH 3.Time : 28hr	
4-5	Temperature Cycle Operating Test	1.Temperature : -40~+75°C 2.Duration : ● 88 Hours, ● 45min/dwelling@ -40°C, ● 10°C per min./transition from -40°C to 75°C, ● 45min/dwelling@75°C,	
4-6	Temperature Shock Test	1.Temperature : -40±°C~+85°C. 2.Time : 30 minutes/dwelling, 5 minutes/transition, 24 cycles	

UNLESS OTHER SPECIFIED TOLERANCES ON :

X= ± X.X= ± X.XX = ±

ANGLES=± HOLEDIA=±



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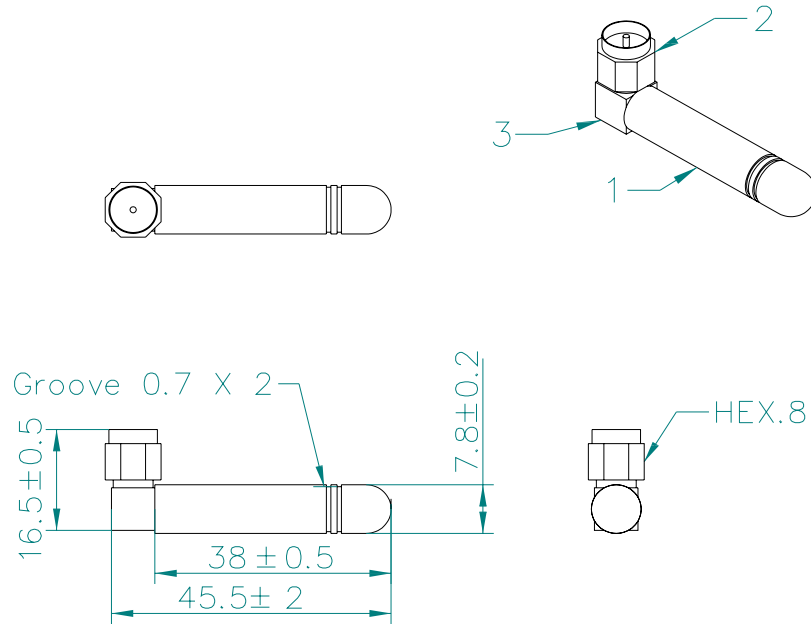
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5. Physical Dimension : Unit : mm

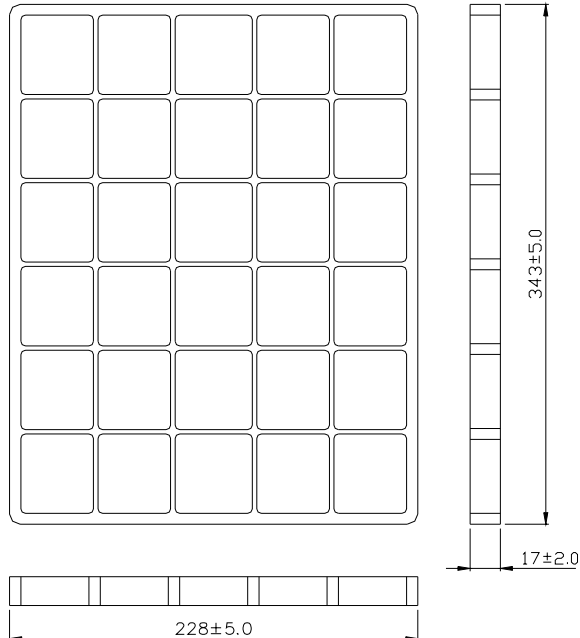


Parts List			
No	Description	Q'ty	Unit
01	Plastic Antenna Cover (TPU or TPE ,Black)	1	PC
02	SMA R/A improved type (BSBM + Au plating)	1	PC
03	Metal Cap (BSBM + Au plating)	1	PC

6. Packaging:

Antenna to be packed in compartmentalized blisters tray (each 30 pcs per tray).

Material : PET Thickness : 0.48mm



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