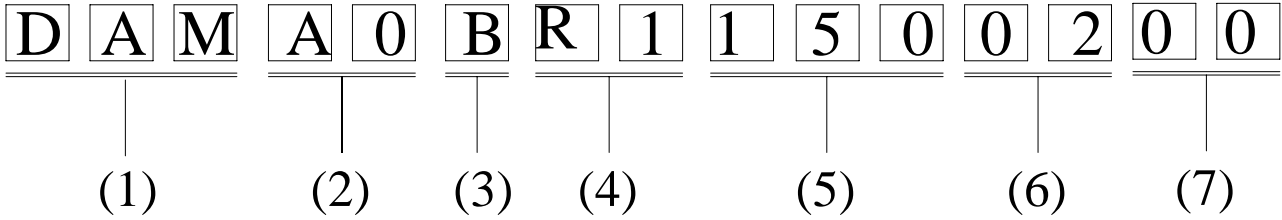


## 2.4GHz A0 Type Antenna for DAMA0BR11500200

### 1. Explanation of Part Number



- (1) Product type : DAM
- (2) Appearance Series : A0
- (3) Frequency : B
- (4) Coaxial Cable Specification : R1
- (5) Coaxial Cable Length : 150
- (6) Connector Types : 02
- (7) Suffix for special requirements : 00

### 2. Electrical properties:

Item	Property
Frequency Range	2.4~2.4835 GHz
Impedance	50 Ω (Typ.)
VSWR <small>(see Fig 1)</small>	2.0 max.
Return loss <small>(see Fig 2)</small>	-10 dB max.
Gain	2.0 dBi (Typ.)
Polarization	Vertical
Radiation pattern	Near omni-directional in the horizontal plane
Admitted power	1 W
Electrical wave	1/2 dipole

UNLESS OTHER SPECIFIED TOLERANCES ON :  
 X = ±3      X.X = ±0.5      X.XX = ±0.05  
 ANGLES = ±      HOLEDIA = ±



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**INPAQ TECHNOLOGY CO., LTD.**

SCALE :	UNIT : mm
DRAWN BY : 張明貴	CHECKED BY: 徐天賜
DESIGNED BY: 張明貴	APPROVED BY : 張啟隆

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Figure 1. VSWR

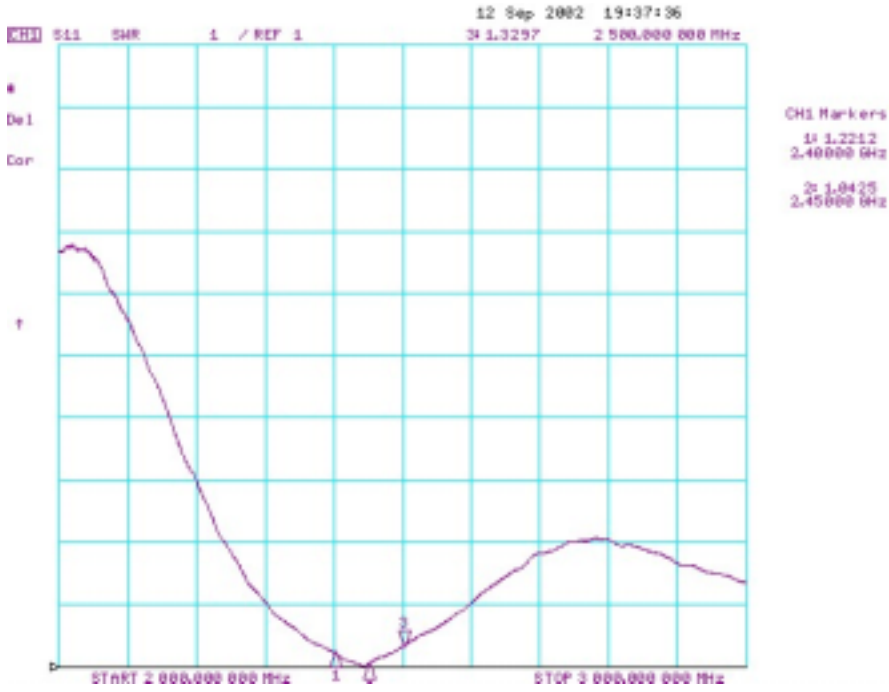
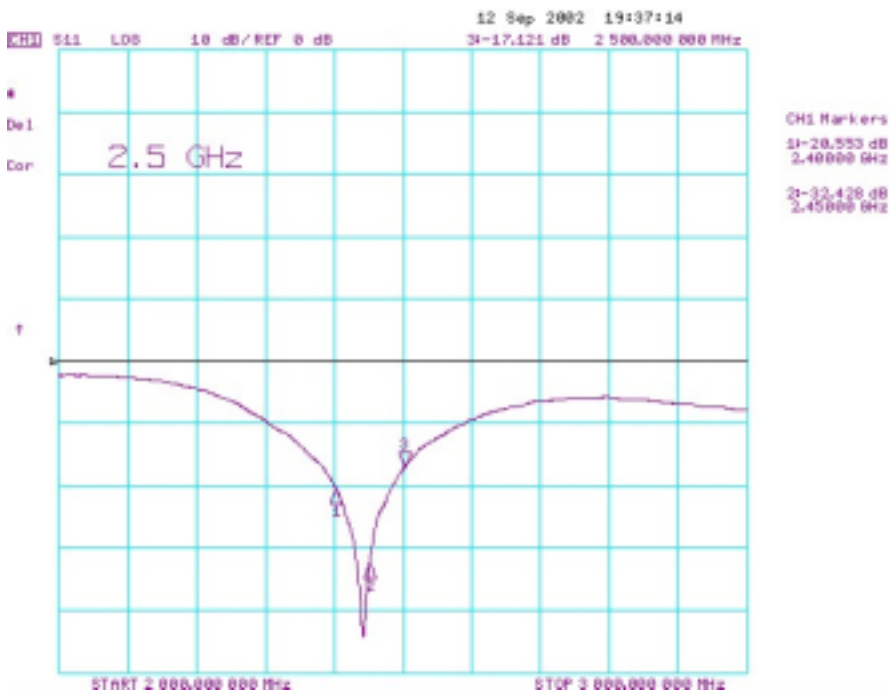


Figure 2. Return Loss



UNLESS OTHER SPECIFIED TOLERANCES ON :  
 X = ±3      X.X = ±0.5      X.XX = ±0.05  
 ANGLES = ±      HOLEDIA = ±



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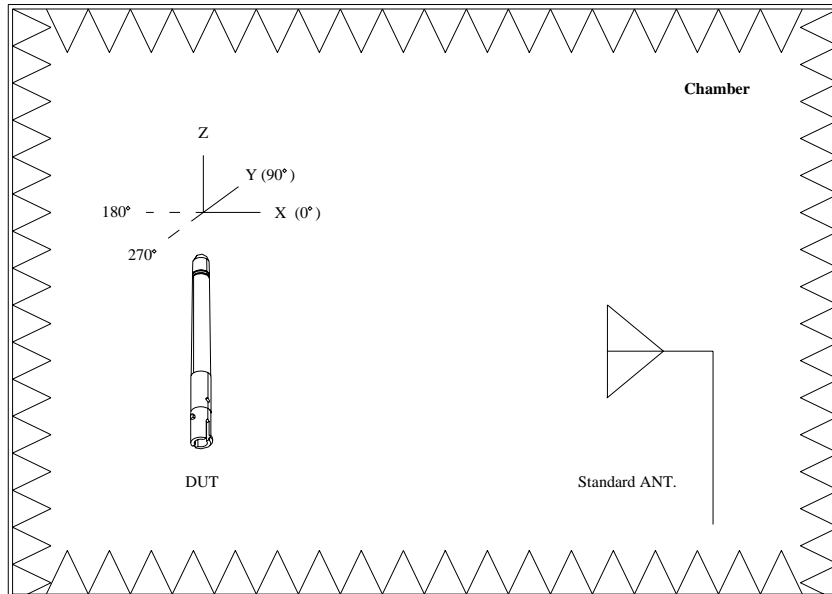
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Figure 3. Gain

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



UNLESS OTHER SPECIFIED TOLERANCES ON :  
 X = ±3      X.X = ±0.5      X.XX = ±0.05  
 ANGLES = ±      HOLEDIA = ±



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### 3. Mechanical properties:

Item	Property
Color	Black ( Typ.)
Coaxial-Cable	Mini Coaxial 1.13
Plastic Cover	TPU or TPE
Antenna Base	PC
Fixed pin	BSBM ( surface treatment )
Connector	Mini Coaxial Connector

Operating Temperature : -20~+65

Storage Temperature : -40~+80

### 4. Environmental Characteristics:

No	Item	Test Condition	Specification
4-1	High Temperature/Humidity Operating test	1.Temperature : +60±2 . 2.Humidity : 90~95%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 . 2.Humidity : 0%RH 3.Time : 24hrs	
4-3	High Temperature/Humidity Storage	1.Temperature : +80±2 . 2.Humidity : 90~95%RH 3.Time : 88hrs	
4-4	Low Temperature/Humidity Storage	1.Temperature : -40±2 . 2.Humidity : 0%RH 3.Time : 28hr	
4-5	Temperature Cycle Operating Test	1.Temperature : -40~+75 2.Duration : ● 88 Hours, ● 45min/dwelling@ -40 , ● 10 per min./transition from -40 to 75 , ● 45min/dwelling@75 ,	
4-6	Temperature Shock Test	1.Temperature : -40± ~+85 . 2.Time : 30 minutes/dwelling, 5 minutes/ transition, 24 cycles	

UNLESS OTHER SPECIFIED TOLERANCES ON :

X = ±3      X.X = ±0.5      X.XX = ±0.05

ANGLES = ±

HOLEDIA = ±



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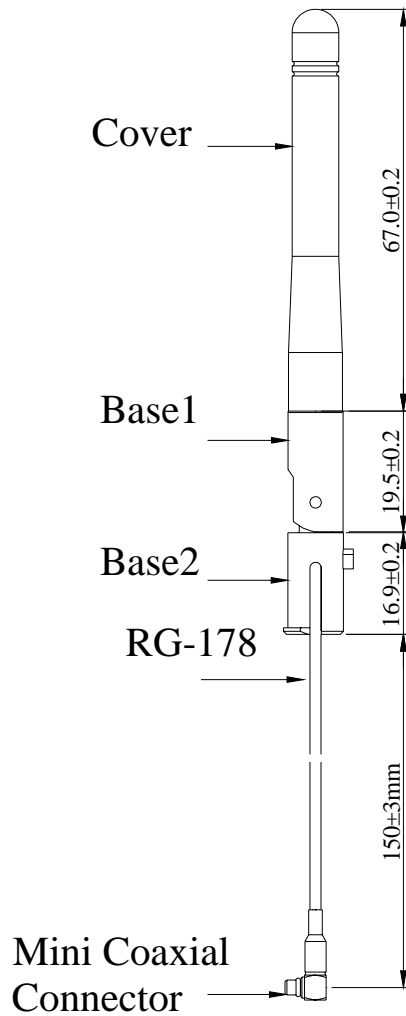
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#### 4. Physical Dimension :



Unit : mm

UNLESS OTHER SPECIFIED TOLERANCES ON :  
 $X = \pm 3$      $X.X = \pm 0.5$      $X.XX = \pm 0.05$   
 ANGLES =  $\pm$     HOLEDIA =  $\pm$



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