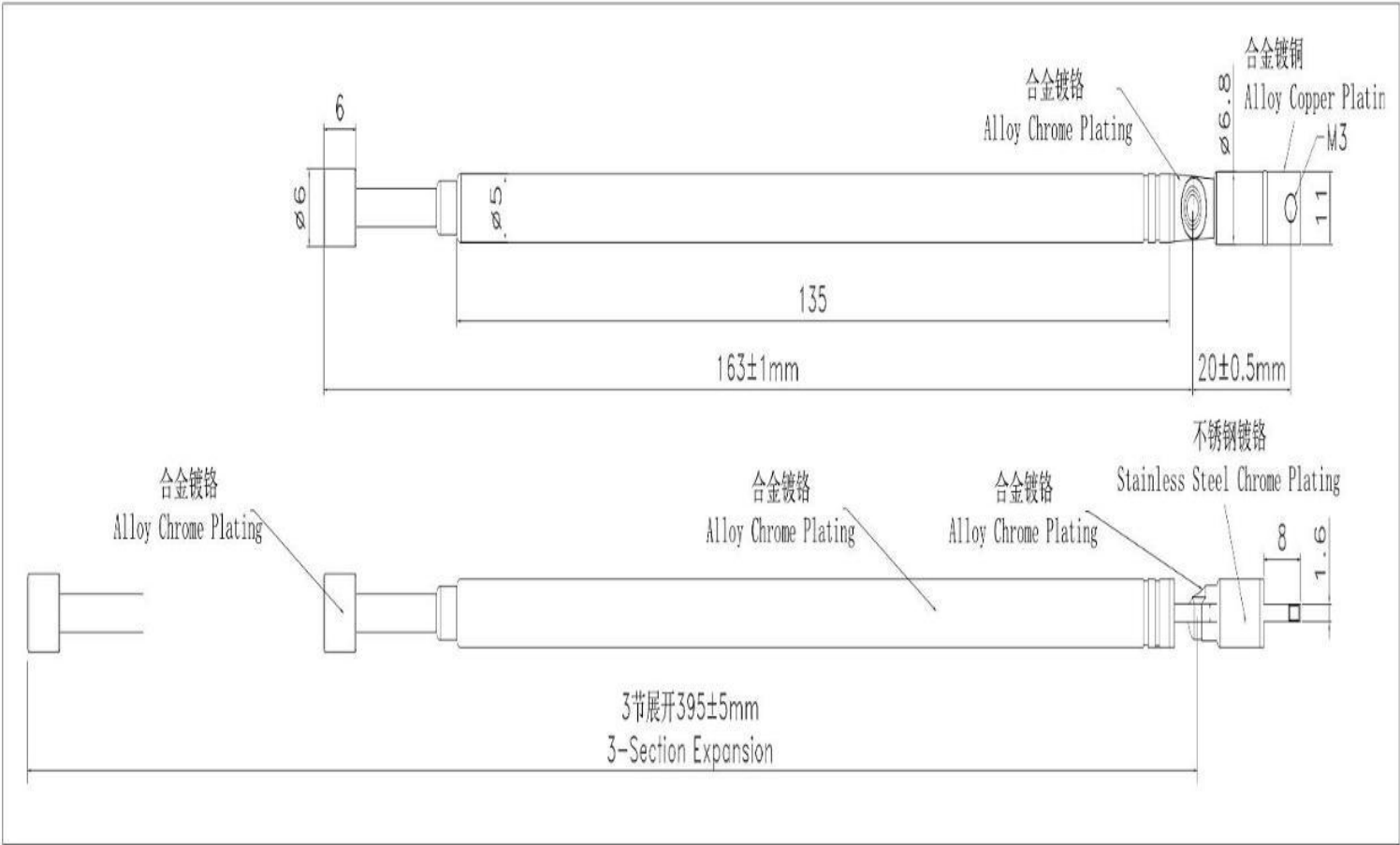


Telescopic Antenna Test Report

1. Report Header

Item	Content
Antenna Model	AT3105
Test Date	2025/12/11
Tester	Hui liu
Approver	Qin Wang

2. Mechanical & Dimension Test



Wire Specification Diagram

★ Diameter: 1.4mm

Length: 60mm

2.1 Dimension Test Diagram

2.2 Dimension Test Data (with Auto-Judge Formula)

Test Item	Specification	Test Standard	Test Result (Cell)	Pass/Fail (Cell + Formula)
Structure Type	3-Section Telescopic	As per drawing	Conform	Pass
Retracted Length	163±1 mm	Drawing Dimension	163	Pass
Extended Length	395±5 mm	Drawing Dimension	395	Pass
End Connector Size	M3 Thread	Drawing Specification	Qualified	Pass
Connector Section Length	20±0.5 mm	Drawing Dimension	20	Pass
Surface Treatment	Main Body: Alloy Chrome Plating; Connector: Alloy Copper Plating; Tail: Stainless Steel Chrome Plating	Drawing Process Requirement (48h Salt Spray Test)	No Rust	Pass
Connecting Wire Parameters	Length: 60mm, Diameter: 1.4mm; Each wire consists of 11 copper wires of 0.12mm; Outer sheath material: PVC; Copper wire material: Galvanized copper; Max voltage: 300V; Temperature range: -40°C (min) ~ 85°C (max)	Drawing Specification	Conform	Pass

3. Performance Test

3.1 Performance Test Diagram

3.2 Performance Test Data (with Auto-Judge Formula)

Test Item	Specification	Test Standard	Test Result (Cell)	Pass/Fail (Cell + Formula)
Telescopic Life	≥5000 cycles	Industry Standard	5000	Pass
VSWR	≤1.5 (Within Operating Band)	RF Performance Requirement	1.3	Pass
Gain	≥2 dBi (Corresponding Band)	RF Performance Requirement	2.2	Pass

4. Test Conclusion

All test items covering mechanical dimensions, structural performance, and RF performance are Pass.

- Passed Items: 3-Section Telescopic Structure Type, Retracted Length, Extended Length, End Connector Size (M3 Thread), Connector Section Length, Surface Treatment (No Rust after 48h Salt Spray Test), Connecting Wire Parameters, Telescopic Life, VSWR, Gain.
- Failed Items & Corrective Actions: None.

Approval Signature: Qin Wang

Manufacturer's name: Changsha Aixuan Electronic Technology Co., Ltd.

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