

Antenna

For 850/900/1800/1900 MHZ

Type No : UC-027-4

Electrical Specification

Frequency range	850/900/1800/1900MHZ
V.S.W.R	≤ 2.3
Connector	SMA Male
Impedance	50 Ω

Environmental & Mechanical Characters

Temperature	-20 $^{\circ}$ C to +85 $^{\circ}$ C
Weight	9.0 g
Dimensions	16.5 x 52.0 mm



USE LINK ENTERPRISE CO.,LTD.

ANTENNA SPECIFICATIONS FOR APPROVAL

1 GENERAL DESCRIPTION

1.1 Type No. : UC-027-4

1.2 Customer P/N :

2 DESCRIPTION & APPLICATION

This antenna assembly is designed for use in portable.
Communications equipment over a temperature range.
Of -20°C to +85°C in an indoor / outdoor environment.

3 ELECTRICAL CHARACTERISTICS

3.1 Frequency Range : 850/900/1800/1900MHZ

3.2 V.S.W.R : ≤ 2.3

3.3 Connector : SMA Male

3.4 Impedance : 50Ω

4 ENVIRONMENTAL CHARACTERISTICS

4.1 Operating temperature range -20°C to +85°C

4.2 Humidity range : 10 % RH to 80 % RH

5 QUALIFICATION TESTING

5.1 Qualification testing, all product shall be able to withstand the following testing.

5.2 Physical dimensions identified within this specification.

5.3 Pull Test : Tube has the capability of load 3 kgf in a vertical position within 30 seconds.

5.4 Torque Test : 3 kgf-cm no damage happened.

6 INSPECTION STANDARD

6.1 Dimension to use the special inspection level of S-4 , AQL 1.0 .

6.2 Appearance to use MIL-STD-105DII AQL1.0 .

6.3 Mechanical Capability : Per lot Sampling, n=5 , Ac 0 , Re 1 .

6.4 Environmental test : Per lot Sampling, n=3 , Ac 0 , Re 1 .

7 PACKING STYLE

If customer has no specific request by the customer, all according to our standard Packing specification.

8 OTHERS

Any changes in this specification should be agreed by both parties.

TEST REPORT

1.MODEL: UC-027-4

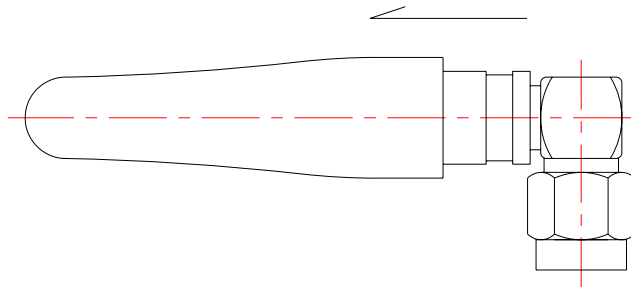
2.QUANTITY: 5 Pcs

3.DATE OF TESTING: Mar.09,2007

4.TESTING ITEM: PULL TEST

5.TESTING EQUIPMENT: UC-016 (PUSH-PULL SCALE FB30K)

6.TESTING CONDITIONS: Antenna must withstand a 3 kgf tensile
Load applied to tube for 30 seconds.
No part of the antenna may be pulled out of
The assembly or from the housing.



7.TESTING RESULT:

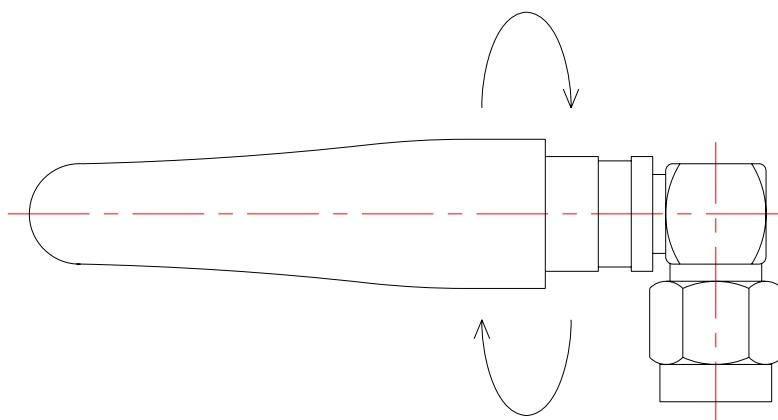
SAMPLE	1	2	3	4	5
OK or NG	OK	OK	OK	OK	OK

APPROVED:

TESTER:

TEST REPORT

1.MODEL: UC-027-4
2.QUANTITY: 5 Pcs
3.DATE OF TESTING: Mar.09,2007
4.TESTING ITEM: TORQUE TEST
5.TESTING EQUIPMENT: UB-001 (MECHANICAL TORQUE METER 2-TM30)
6.TESTING CONDITIONS: 3 kgf-cm no damage happened.



7.TESTING RESULT:

SAMPLE	1	2	3	4	5
OK or NG	OK	OK	OK	OK	OK

APPROVED:

TESTER:

16 Apr 2007 10:52:41

CH1 RFL SWR 1 / REF 1

1: 1.5825

824.000 000 MHz

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Cor

824 MHz

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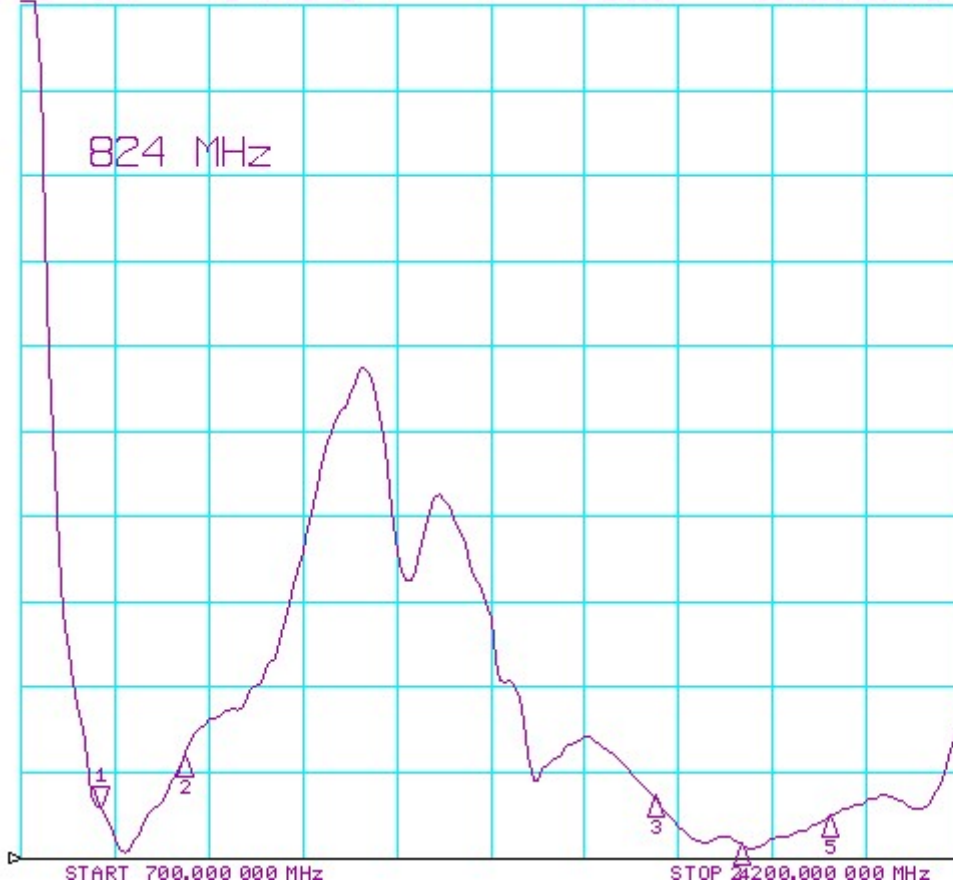
CH1 Markers

2: 2.1844
960.000 MHz

3: 1.7099
1.71000 GHz

4: 1.1615
1.85000 GHz

5: 1.4798
1.99000 GHz



START 700.000 000 MHz

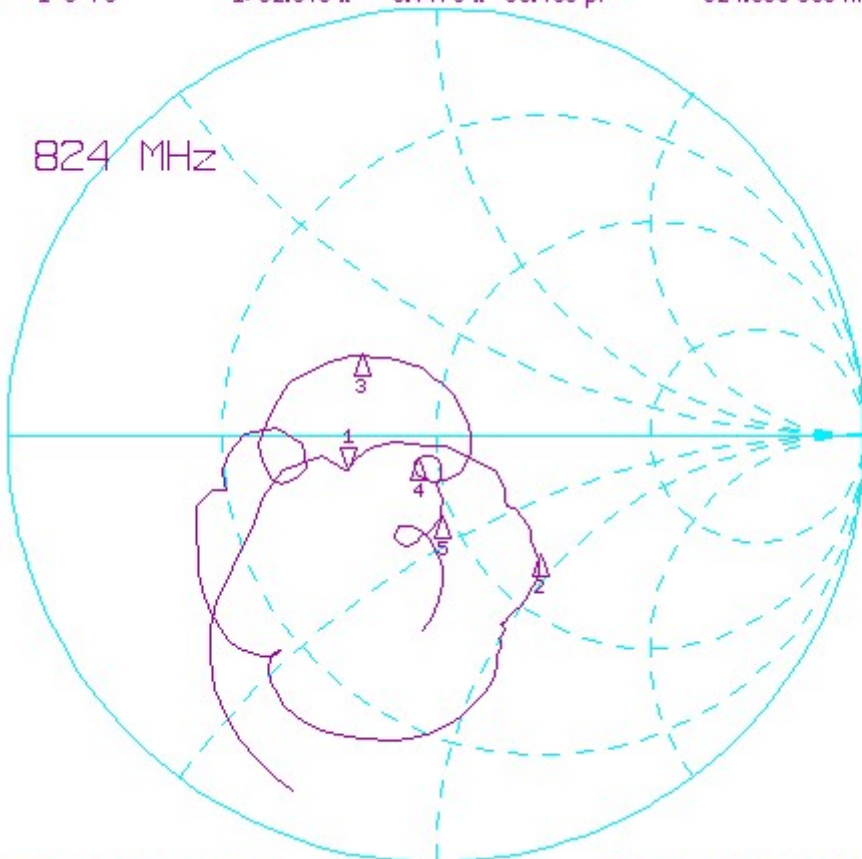
STOP 24200.000 000 MHz

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Cor

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824 MHz



CH1 Markers

- 2: 65.250 Ω
-43.094 Ω
960.000 MHz
- 3: 32.816 Ω
13.271 Ω
1.71000 GHz
- 4: 45.379 Ω
-5.3203 Ω
1.85000 GHz
- 5: 47.424 Ω
-19.137 Ω
1.99000 GHz

START 700.000 000 MHz

STOP 2 200.000 000 MHz