

SPECIFICATION

承 認 書

APPLICATION FOR APPROVAL

客 戶:

CUSTOMER.TELLUS TECHNOLOGY INC.

品 名:

PART NAME.DEVE-0071 TRANSPARENT CAP ANT.

機 種:

TYPE NO.CR-4237A0-000

客戶機種:

CUS P/N. 501-0059

日 期:

DATE : DECEMBER.13 ,2000

承認印 APPROVED

[Handwritten Signature]
DIRECTOR OF
ENGR
0957XN01

AUDEN TECHNO CORP.

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Subject:	Qualification Test Specification for Single Band Antenna	Part No.:		Rev.: 0
Project Code:	DEVE-0071 TRANSPARENT CAP ANT.	Doc. No.:		
Model Name:	CR-4237AO-000			1 of 11

0. Electrical characteristics

0-1. Frequency Bands

0-1-1. Transmit Bands(TX): Tx: 824-849 MHz

0-1-2. Receive Bands(RX): Rx: 869-894 MHz

0-2. Impedance

0-2-1. Nominal Value: $50\Omega \pm 5\Omega$

0-3. VSWR

0-3-1. Typical Maximum Value: Tx: 1.8:1
Rx: 1.8:1

0-3-2. Measuring Method: A 50Ω test jig is connected to a network analyzer to measure the VSWR.

0-4. Gain

0-4-1. Typical Minimum Peak Value: Tx: 0dBi
Rx: 0dBi

0-5. Power Rating

0-5-1. Maximum Value: 2W(CW)

0-5-2. Measuring Method: A 50Ω test jig is connected to a network analyzer to measure the VSWR. The power is applied for 5 minutes at the middle frequency of each Tx band defined in 0-1-1. After the test then measure the VSWR.

0-5-3. Criteria: The antenna shall satisfy the VSWR as described in 0-3. No visual deterioration shall occur during or after the test.

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1. Environmental characteristics

1-1. High Temperature/Humidity Operating Test

- 1-1-1. Temperature: +55 °C
- 1-1-2. Humidity: 85% RH
- 1-1-3. Time: 24 hrs
- 1-1-4. Criteria:
 - (1) Normal functional test must be satisfied during the test
 - (2) No power interruption during the test is allowed

1-2. Low Temperature Operating Test

- 1-2-1. Temperature: -20 °C
- 1-2-2. Time: 24 hrs
- 1-2-3. Criteria:
 - (1) Normal functional test must be satisfied during the test
 - (2) No power interruption during the test is allowed

1-3. High Temperature/Humidity Storage Test (non-operating)

- 1-3-1. Temperature: +75 °C
- 1-3-2. Humidity: 90% RH
- 1-3-3. Time: 24 hrs
- 1-3-4. Criteria:
 - (1) Normal functional test must be satisfied after the test
 - (2) No material deformation is allowed

1-4. Low Temperature Storage Test (non-operating)

- 1-4-1. Temperature: -30 °C
- 1-4-2. Time: 24 hrs
- 1-4-3. Criteria: Normal functional test must be satisfied after the test

2. Mechanical characteristics

2-1. Drop Test (non-operating)

- 2-1-1. Test method: 2 drops onto a steel surface while attached to a fully weighted handset. Drop is free fall from a height of 150cm.
- 2-1-2. Criteria: No degradation or material failure

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2-2. Torque Test

- 2-2-1. Test method: The antenna is assembled to the test equipment. A torque instrument is attached to the helical antenna. The antenna is exposed to a torque of 10Ncm min between fitting and plastic clockwise direction
- 2-2-2. Criteria: No degradation or material failure
- 2-2-3. Pull Test Pull CAP and AB SET in opposite directions with a pull force of 20N.

3. Visual inspection

3-1. Glue

No visible glue above AB SET(UP).

4. Packing

4-1. Packing Method

Antenna to be packed in polybag.

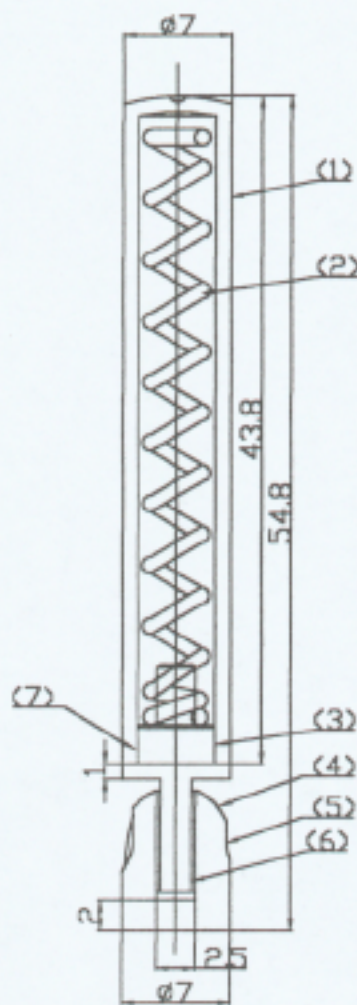


FIG 1

5	SCREW	1	FE Ni 5 μ					
4	AB SET(DOWN)	1	BSBM Ni 5 μ					
3	AB SET(UP)	1	BSBM Ni 5 μ					
2	COIL	1	BRONZE PHOSPHOR SILVER 5 μ	7	GLUE	1	0.5mg	
1	CAP	1	PC TRANSPARENT	6	WASHER	1	BRONZE PHOSPHOR CLEAN	
NO	DESCRIPTION	Q'TY	MATERIAL	NO	DESCRIPTION	Q'TY	MATERIAL	
檢 圖 製 圖	APPROVAL 檢 閱 文	公差 ± 0.2	TOLERANCE	投 影 圖 樣	品 名 CR-4237A0-000	日 期 2000, 12, 13	版 次 2	DATE
	CHECK 葉 銘 洲	單 位 MM	UNIT	PROJECTION	TITLE			
	DRAW 林 奕 仁	比 例 2:1	SCALE			耀登科技股份有限公司 AUDEN TECHNO CORP.		