

Products must NOT contain: Lead (Pb), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE), Hexavalent Chromium, Cadmium, or Mercury.

All parts must be compatible with 250°C soldering

REV	DESCRIPTION	DATE	APPROVED
-	RELEASED TO RECORDS	8/15/00	RLK
A	REVISED PER CD504	9/24/01	RLK
B	REVISED PER CD519	12/17/01	PRW
C	REVISED PER CD522	01/22/02	RLK
D	REVISED PER CD544	08/05/02	RLK
E	CHG XMT VSWR; CD627	06/06/05	RLK
F	ADD NOTE 3; CD629	07/19/05	RLK
G	ADD ANTE TEC; CD641	02/27/06	RLK
H	ANTETEC MARKING;CD642	04/03/06	RLK
J	RMV SHEPHERD; CD669	07/10/07	RLK

Antenna Requirements

Frequency Range: DUALBAND: 824 ~ 894 MHz (AMPS/TDMA)
1850 ~ 1990 MHz (PCS)

Design: Dipole-type with adjustable 0-90 degree swivel

Antenna Gain³: 824 ~ 849 MHz 0 to 3dBi (XMT)
849 ~ 869 MHz -3 to 3dBi
869 ~ 894 MHz -1 to 3dBi (RCV)
1850 ~ 1910 MHz 0 to 3dBi (XMT)
1910 ~ 1930 MHz -3 to 3dBi
1930 ~ 1990 MHz -1 to 3dBi (RCV)

VSWR: < 2.0 (XMT portion of band) { < 1.5 preferred}
< 2.5 (RCV portion of band)

Impedance (Nominal): 50Ω

Polarization: Linear


Radiation Pattern: Omnidirectional (nominal)

RF Connector: TNC - male (dimensions per MIL-C-39012)

Temperature Range: -30°C ~ +60°C (operating)

Part No.	ANTE TEC Part No.	GALTRONICS Part No.	Antenna Color
01	6010250102	020356075-2098	Black

- NOTES:**
- 1) PACKAGE ANTENNA IN A BAG; OR MANNER WHICH IS IDENTIFIED WITH TELULAR PART NO. AND REVISION.
 - 2) MECHANICAL SPECIFICATIONS WILL VARY FROM PART TO PART. REFER TO VENDOR DATASHEET FOR DETAILS.
 - 3) ANTENNA GAIN MUST BE MEASURED IN A PLANE PERPENDICULAR TO THE LONG (E) AXIS OF THE ANTENNA.

<p>Note: Vendor part numbers do not reflect production packaging. Packaging is left to the discretion of purchasing and/or Contract Manufacturer to optimize with insertion equipment.</p>			311 South Wacker Drive Suite 4300 Chicago, IL 60606	
	APPROVED BY: D.A.T.	DES. ENG. _____ MFG. _____ MECH. DESIGN _____	DRAWN BY: G. EHRlich	
	TITLE: ANTENNA, 2dBi, DIPOLE, 800/1900, TNC-MALE, KNUCKLE, (ROHS)		DRAWING NUMBER: 72006600	
	DATE: 8/07/00		SHT. 1 OF 6	

SPECIFICATION OF AT025N1C2 ANTENNA

(P/N: 6010250102)

This coaxial dipole antenna designed for fixed CDMA WLL phone, terminal and other wireless equipment. This antenna is RoHS compliant.

1. Specification Summary:

Frequency Range (MHz) 824-894; 1850-1990

Gain (dBi) 2

VSWR(max) 2: 1

Impedance (Ω) 50

Connector TNC male

Polarization Vertical

Max Power (W) 20

Color Black and others

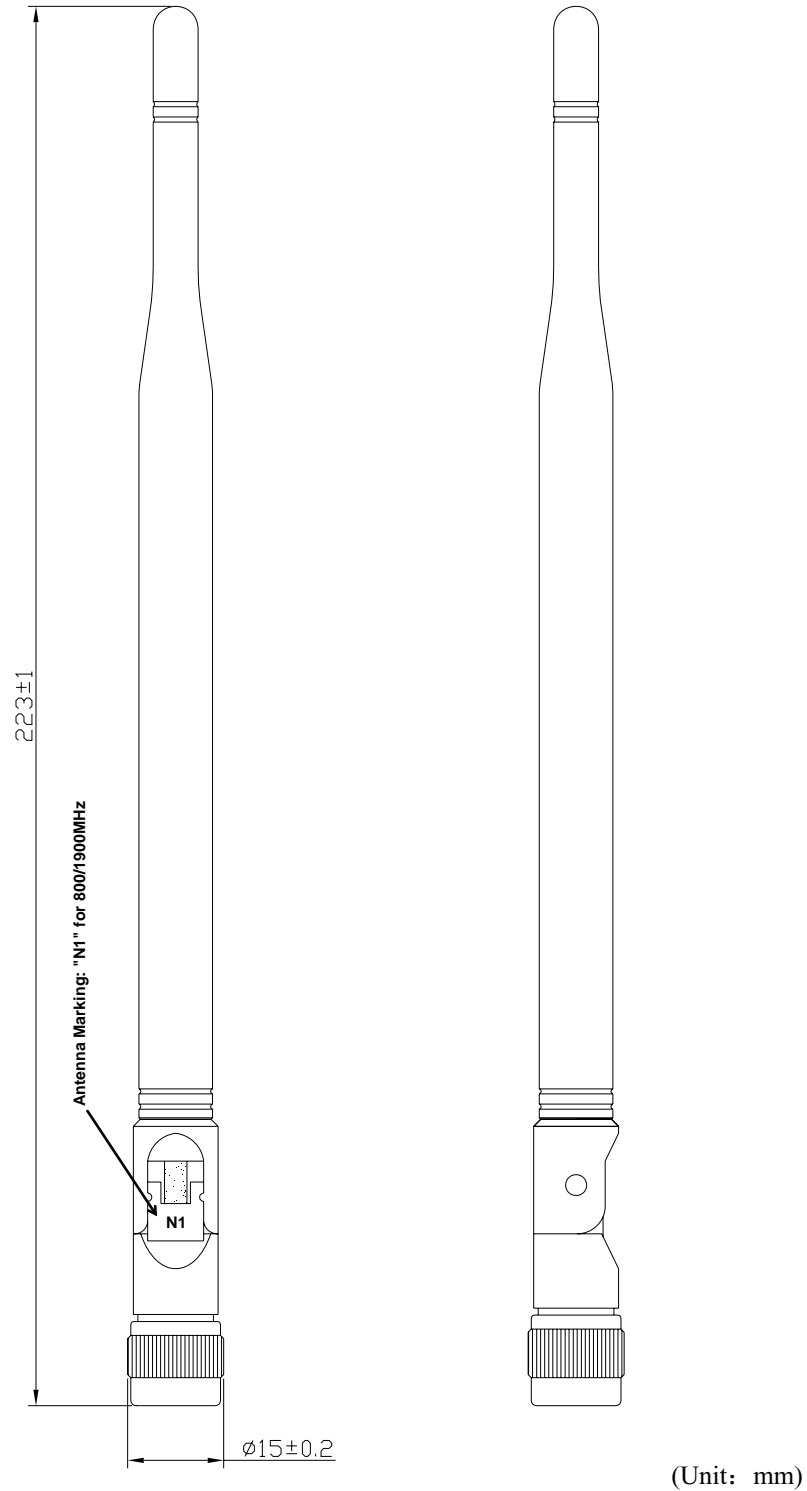
Dimensions (mm)

223(length when straight angle) x 15(Φ)

Weight (g) 40



2.Geometry Figure



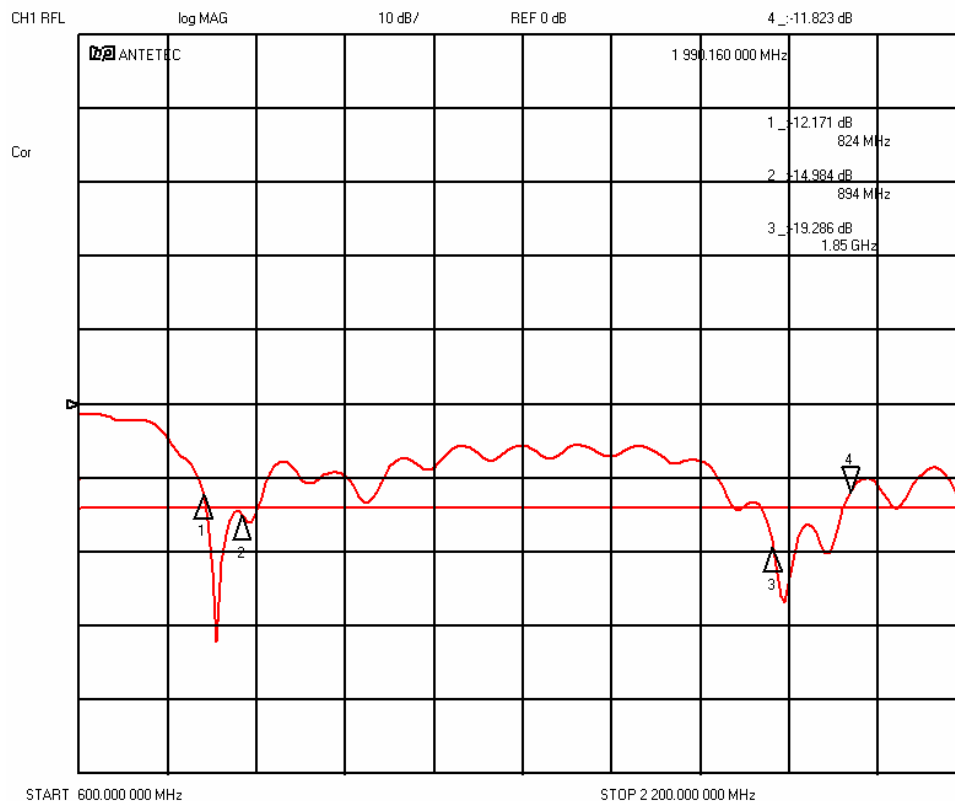
3. Electrical Specifications

3.1 S11 Parameters

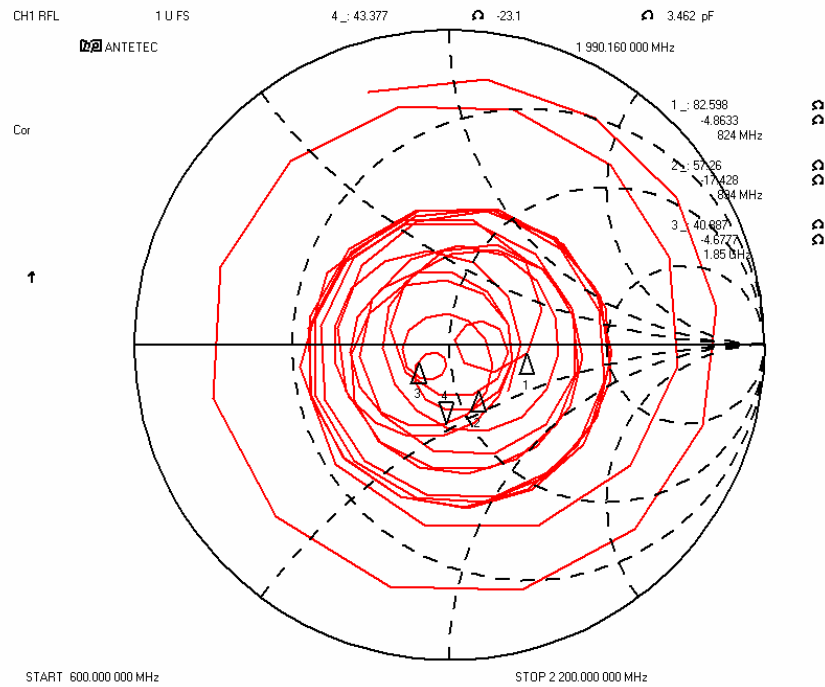
BAND	CDMA			
Frequency (MHz)	824	894	1850	1990
Return Loss (dB)	-12.171	-14.984	-19.286	-11.823
VSWR	1.6223	1.4572	1.2582	1.6985

3.2 Test Results

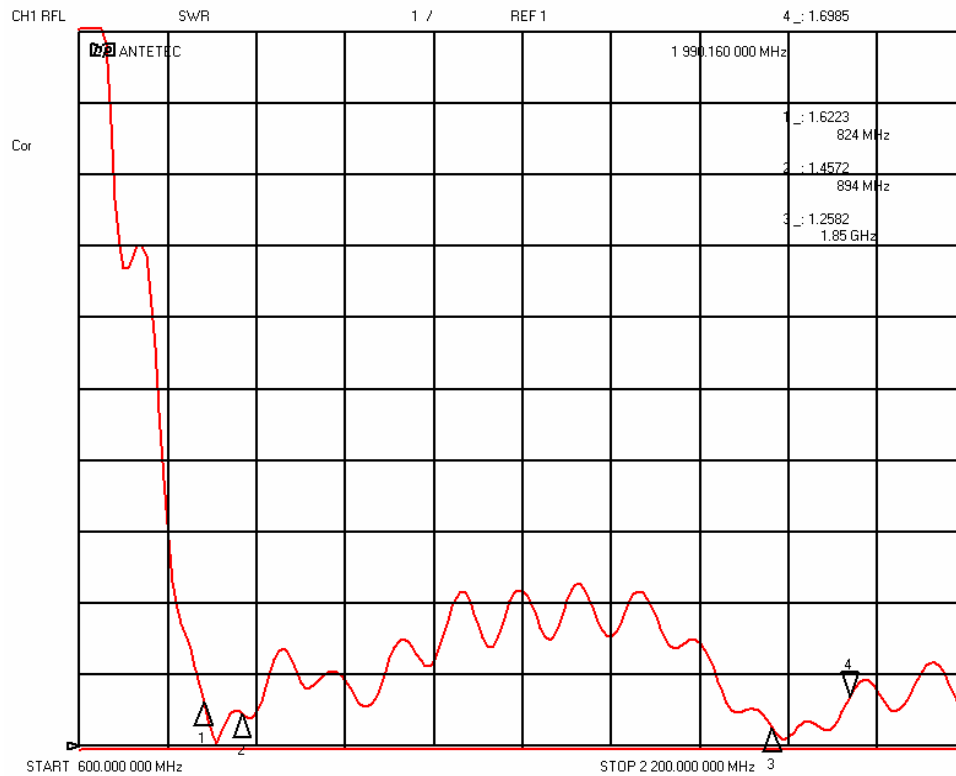
3.2.1 Return Loss

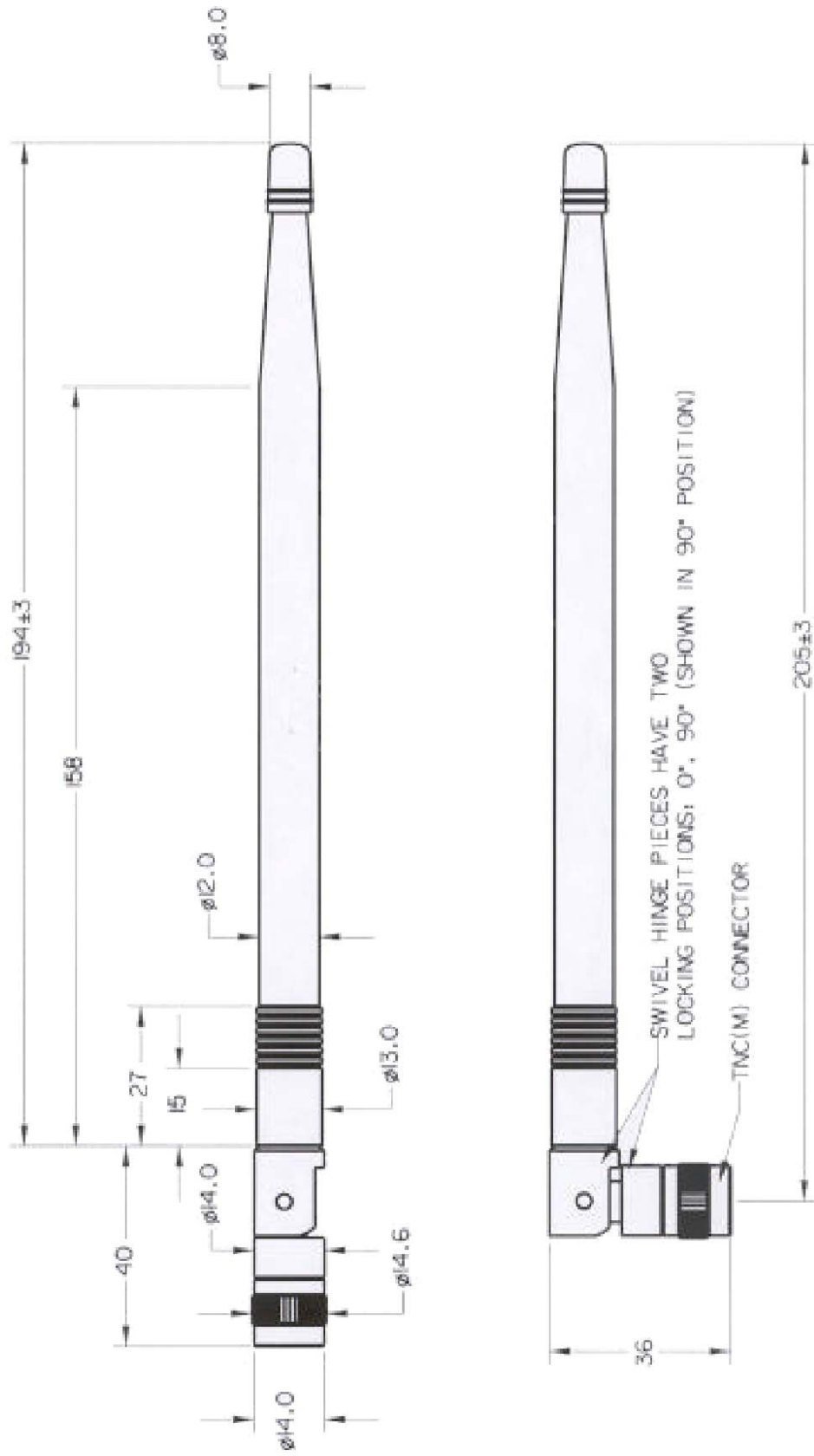


3.2.2 Smith



3.2.3 VSWR





UNLESS OTHERWISE SPECIFIED
 DIMENSIONS ARE IN MILLIMETERS.
 TOLERANCES ON:

X ± 1	ANGULAR ± 1/4°
XX ± 0.2	
XXX ± 0.10	
XXX ± 0.050	

GALTRONICS