

REV	DESCRIPTION	DATE	APPROVED
F	PER ECO CD519	12/17/01	PRW
G	PER ECO DP088; ADD 01-M	04/15/02	RLK
H	PER ECO CD559; RMV ACE	01/20/03	RLK
J	PER ECO CD629; ADD NOTE 3	07/19/05	RLK
K	ECO XS049; ADD ANTE TEC	10/24/05	RLK

Antenna Requirements

Frequency Range: 824 ~ 894 MHz
 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)
 VSWR: Less than 2.0 : 1 (PREFER XMT <= 1.5 : 1)
 Impedence (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.	HANKOOK (Dist. MK Int.) Part No.	RADIALL/LARSEN Part No.	Antenna Color
01	AT015N1C1-BL	TB-800T	SPDA-17832	Black
01-M	AT015N1C1-BL	TB-800T	SPDA-17832	Black

NOTES:

- 1) PACKAGE ANTENNA IN A BAG; OR MANNER WHICH IS IDENTIFIED WITH TELULAR PART NO. 72000901 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.
- 4) ANTENNA VSWR TO BE ACCEPTANCE TESTED PER TELULAR SPEC. 910001700.

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.



TELULAR
CORPORATION

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APPROVED BY: **D.A.T.**

DES. ENG. F. ENGELKING
MFG. _____
MECH. DESIGN _____

DRAWN BY: **G. EHRLICH**

TITLE: **ANTENNA, 2dBi, DIPOLE, 800MHz, TNC-MALE, KNUCKLE**

DRAWING NUMBER: **72000900**

DATE: **7/19/01**

SHT. 1 OF 4

Products >> Antenna >> AT015N1C1



Antenna Marking: "N1" for 800MHz



Product S/N: AT015N1C1

Product Parameters: 824-894 (MHz)

Product Introduction: Frequency Range (MHz): 824-894
Gain (dBi): 2
VSWR: less 1.5 : 1
Nominal Impedance (Ohm): 50
Connector of Antenna: TNC male
Polarization: Vertical
Max Power (W): 50
Color: Gray; Add "-BL" for Black
Dimensions (mm):
212(length when straight angle) x 15(diameter)
184(length when right angle) x 15(diameter) x 41
Weight: 36g

Wireless LAN & Wireless Local Loop Antennas

- GPS Antennas
- Outdoor Antennas
- Mobile Phone Antennas
- Portable Two Way Antennas
- Other Antennas

■ **TB - 800/TB - 1900/TB - 2400** 800/1900/2400MHz, Tilt base type



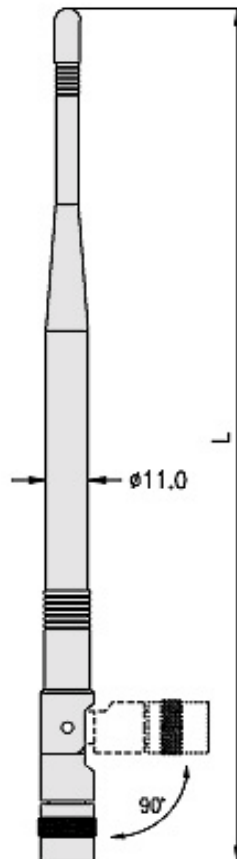
:: Electrical specifications

Item	TB-800	TB-1900	TB-2400
Frequency	800MHz	1900MHz	2400MHz
Range	BAND	BAND	BAND
Nominal Impedance	50 ohms		
Radiation	Omni-directional		
Polarization	Vertical		
V.S.W.R	Less than 1 : 1.9		
Gain	1.5 dBi minimum		

:: Mechanical specifications

Item	TB-800	TB-1900	TB-2400
Connector	SMA, TNC, BNC		
Length	230mm	197mm	178mm
Others	90 deg. Tilt Base		
Operating Temp.	-30C ~ +70C		

:: TB - 800/TB - 1900/ TB - 2400 ::



Model	L(Maximum)
TB-800	233
TB-1900	197
TB-2400	178

PORTABLE ANTENNAS

RADIAL/LARSEN

antenna technologies

Radiall/Larsen introduces the new half wave dipole designs offering the highest performance for portable antenna applications.



Centerfed 1/2 wave dipole antenna.

MODEL	FREQUENCY	CONN.	MODEL	FREQUENCY	CONN.
SPDP15832	790-874 MHz	BNC	SPDA15832	790-874 MHz	BNC
SPDP15860	820-900 MHz	BNC	SPDA15860	820-900 MHz	BNC
SPDP15918	872-964 MHz	BNC	SPDA15918	872-964 MHz	BNC
SPDP17832	790-874 MHz	TNC	SPDA17832	790-874 MHz	TNC
SPDP17860	820-900 MHz	TNC	SPDA17860	820-900 MHz	TNC
SPDP17918	872-964 MHz	TNC	SPDA17918	872-964 MHz	TNC
SPDP172400	2400-2500 MHz	TNC	SPDA172400	2400-2500 MHz	TNC
SPDP20832	790-874 MHz	SMA MALE	SPDA20832	790-874 MHz	SMA MALE
SPDP20860	820-900 MHz	SMA MALE	SPDA20860	820-900 MHz	SMA MALE
SPDP20918	872-964 MHz	SMA MALE	SPDA20918	872-964 MHz	SMA MALE
SPDP202400	2400-2500 MHz	SMA MALE	SPDA202400	2400-2500 MHz	SMA MALE

SPECIFICATIONS		SPECIFICATIONS	
TYPE	Center Fed Dipole	TYPE	Center Fed Dipole
VSWR (see bandwidth)	2.0 : 1	Nominal Impedance	50 Ohms
BANDWIDTH	10%	VSWR (see bandwidth)	2.0 : 1
CONNECTOR	Straight Mount	BANDWIDTH	10%
MAX HEIGHT	8"	GAIN	1.5dBi
		POLARIZATION	Vertical
		CONNECTOR	Articulating Right Angle
		MAX HEIGHT	203mm 800/900 MHz
			167mm 1800/1900 MHz
			148mm 2400 MHz
		WIDTH	11mm
		COLOR	Black
		SLEEVE MATERIAL	Polyurethane

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