

MJ TELCOM	ANTENNA SPECIFICATION	No. : SA-100 Rev. : 2
PART NUMBER : HPD-1900BK (BLACK COLOR)		Page: 1 of 8

Specification for approval

WLL BASE 1900MHz ANTENNA

- Customer : [LG ELECTRONICS INC.]
- Description : WLL BASE ANTENNA
- Model Number (P/N): HPD-1900BK
(BLACK COLOR)
- Spec. : See Attached
- Date : 2005.May.16.

MJ Telcom Co.

365-1 Buchontechnopark, Samjung-Dong, ohjung-Gu, Buchon-Si, kyunggi-Do, 301-1504
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Lee.won



DATE: 2005.5.16

PREPARED BY

Lee.yang.won



DATE: 2005.5.16

REVIEWED BY

Lee.inn hee



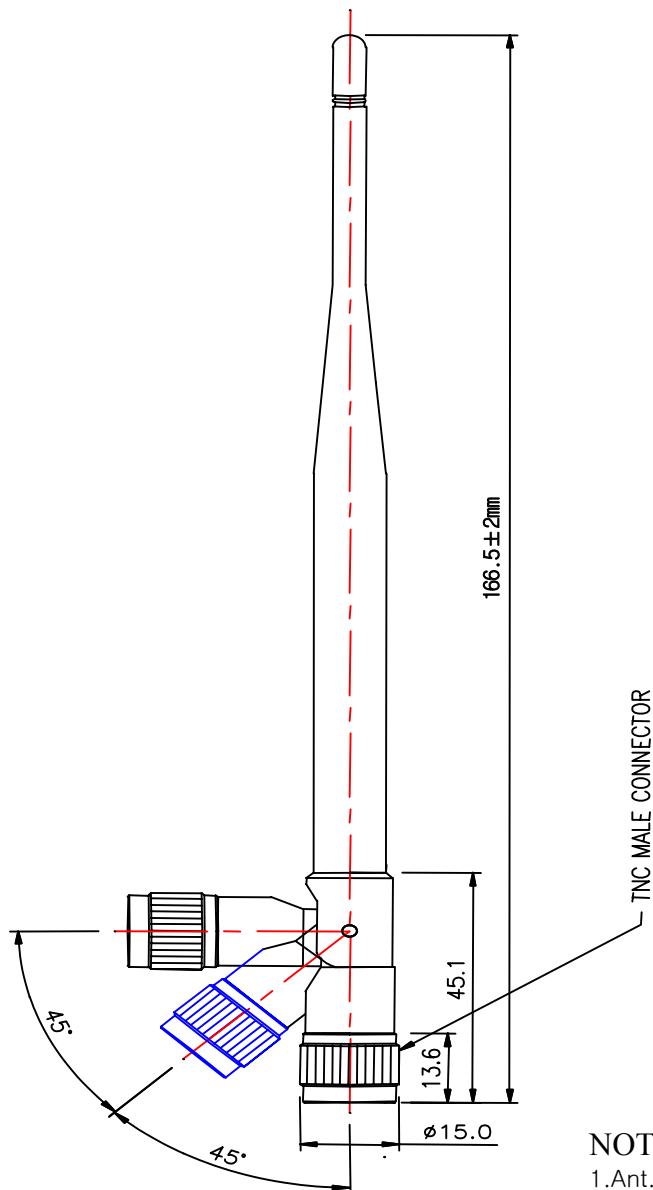
DATE: 2005.5.16

APPROVED BY

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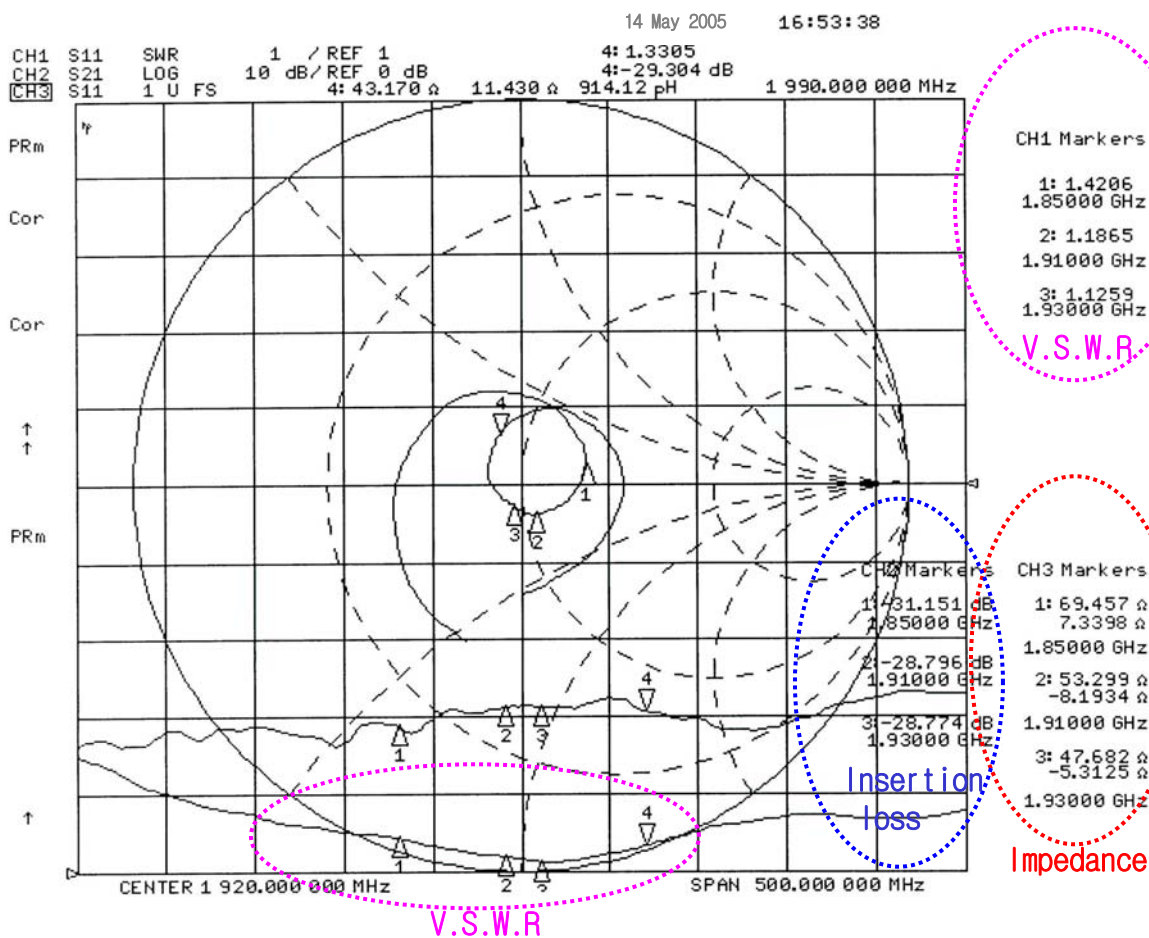
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1. GENERAL SPECIFICATIONS		
MODEL : HPD-1900BK		
ANTENNA TYPE : SLEEVE DIPOLE ANTENNA		
2. ELECTRICAL SPECIFICATIONS		
1) Frequency range : 1850~1910, 1930~1990 MHz 2) V.S.W.R : Less than 1.5:1 3) Gain (dBi) : 2.0 dBi ±0.5 H(x-y) Plan 4) Radiation pattern : Omni-directional 5) Polarization : VERTICAL 6) Power input(Watts) : 5(Max) 7) Antenna Type : Sleeve half Wave length dipole 8) Impedance : 50 Ω Nominal		
3. MECHANICAL SPECIFICATIONS		
1) Overall Length of Ant.: 166.5 ±2.0 mm 2) Weight : 30 g 3) Connector Type : TNC-Male(Nickel plate) 4) Temperature : -30℃~+70℃ 5) Cover material : Urethane (HI 153-9082) BLACK COLOR 6) Cover, joint(上,下)color: NYLON 66 (Resin No: HI 153-9082) BLACK COLOR 7) Joint pin : Nickel plate		

4.ANTENNA ASS'Y DRAWING**NOTE:**

1.Ant. Color : BLACK

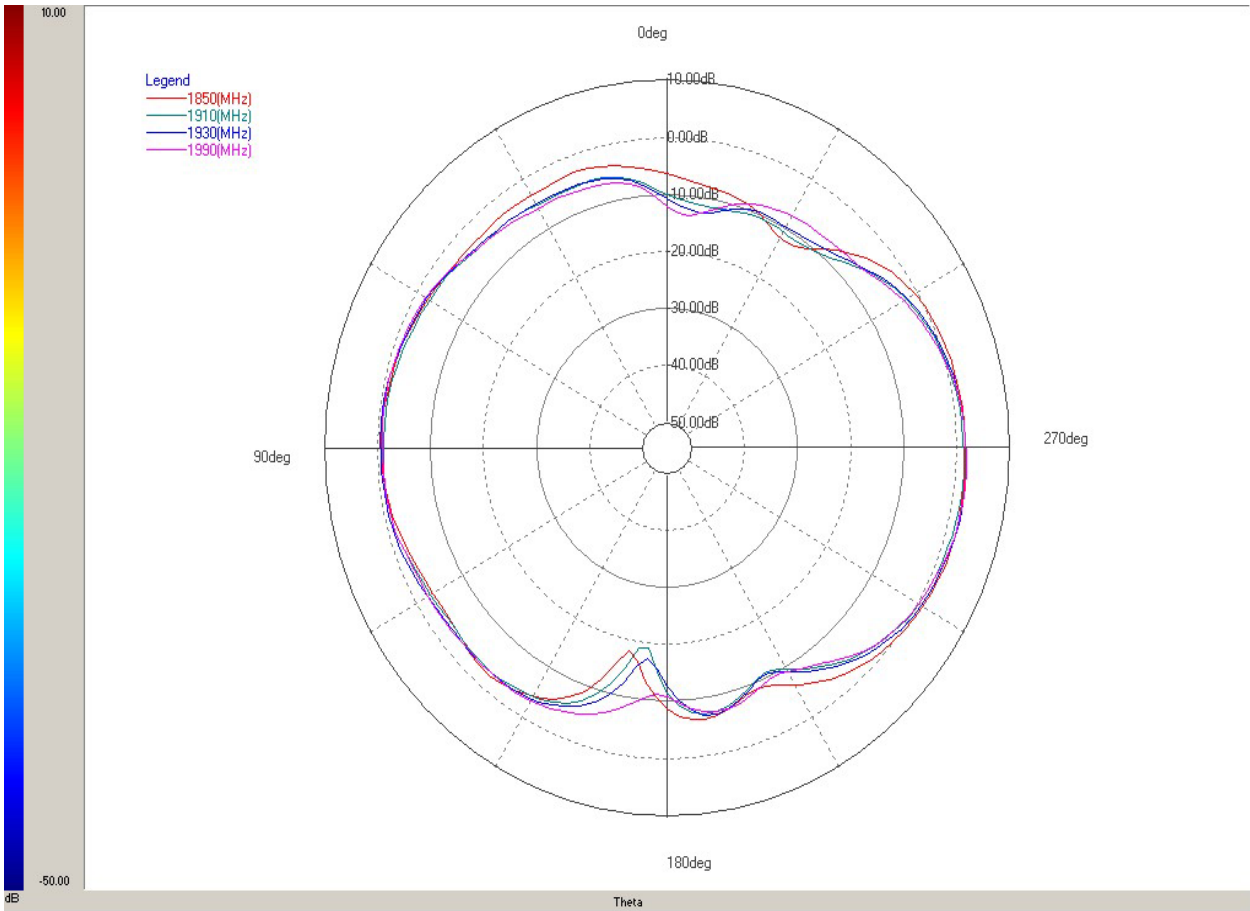
2.LG Resin No: HI 153-9082
BLACK COLOR

5.V.S.W.R Characteristics



6. RADIATION PATTERN

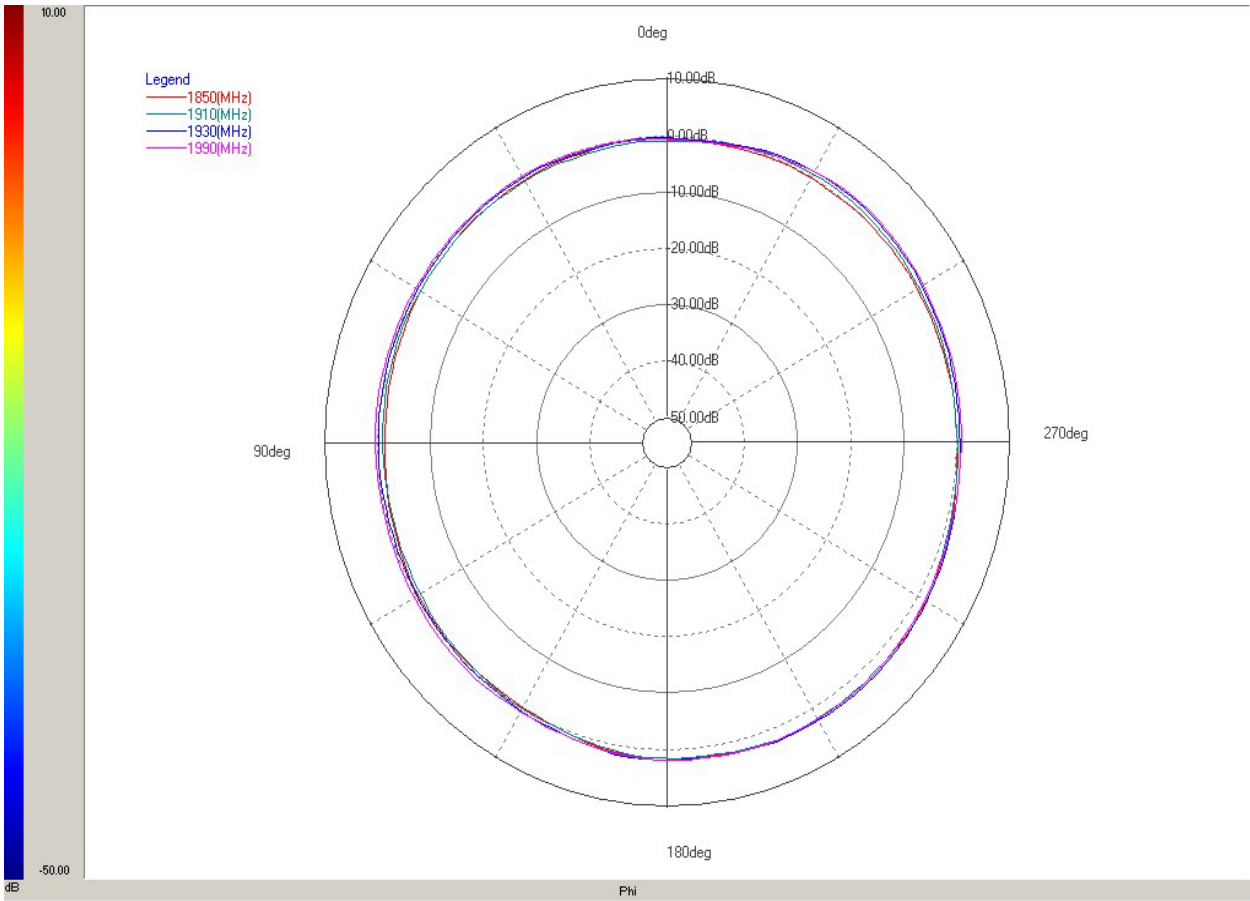
E(x-z) [dBi]



Layer	Max value	Position	Min value	Position	BeamWidth	Average
1850(MHz)	1.90 dB	-97.14 deg	-18.49 dB	168.57 deg	75.86 deg	-3.13 dB
1910(MHz)	1.70 dB	-97.14 deg	-19.39 dB	174.29 deg	62.27 deg	-4.00 dB
1930(MHz)	2.11 dB	-100.00 deg	-17.60 dB	174.29 deg	62.20 deg	-3.59 dB
1990(MHz)	1.95 dB	-97.14 deg	-13.78 dB	-5.71 deg	57.51 deg	-3.64 dB

6. RADIATION PATTERN

H(x-y) [dBi]



Layer	Max value	Position	Min value	Position	BeamWidth	Average
1850(MHz)	2.16 dB	218.28 deg	-1.35 dB	85.04 deg	241.54 deg	0.10 dB
1910(MHz)	2.02 dB	201.27 deg	-1.34 dB	17.01 deg	236.32 deg	0.09 dB
1930(MHz)	2.36 dB	218.28 deg	-0.79 dB	14.17 deg	331.62 deg	0.62 dB
1990(MHz)	2.12 dB	201.27 deg	-1.03 dB	357.19 deg	349.25 deg	0.76 dB