



Laipac Technology Inc.

WLP 434 RF & Cordless Phone Antenna

1 Application

The antenna specified in this specification is applicable for the cordless phone

2 Dimensions

As per Drawing No. RA1417801B002A-373 attached.

3 Materials

As specified in drawing No. RA1417801B002A-373

4 Electrical Characteristics

- i) Resonate Frequency : 434 ± 10 MHZ
- ii) Return loss : -4 dB or less
- iii) Radiation Pattern : Omni Directional
- iv) Polarization : Vertical
- v) Standing Wave Ratio(S.W.R): 4.0 or less
- vi) Insulation resistance : 500M ohm at DC 500V

5 Mechanical Characteristics

- i) The strength of fixing between sleeve and stud shall withstand the following stresses

Vertical Direction : 2.0 kgs
Rotating Direction : 2.0 kgcm

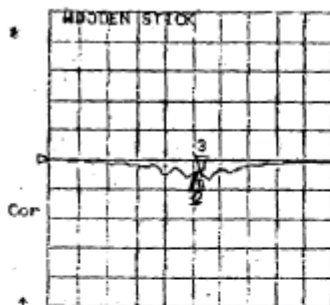
6 General Characteristics

- i) Storage Temperature : -30°C to 80°C
- ii) Operating Temperature : -30°C to 60°C
- ii) Visbration Test : There shall be no defects in appearance or the mechanical and electrical functions after the antenna being tested by a regular mounting device under the following conditions:
 - a) Displacement : $\pm 5^{\circ}\text{C}$ of the axis original position
 - b) Duration : 1000 cycles/minutes
 - c) Time : 5 minutes
- iv) Shock Resistance : Satisfy the electrical and mechanical characteristics after drop down with 100g upon rubber

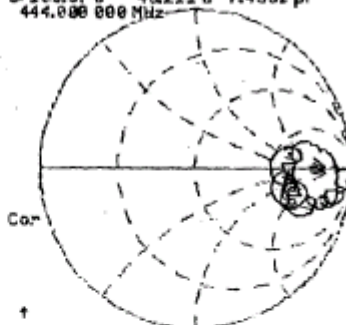
CH1 LOG 10 dB/REF 0 dB
S11/M 31-4.4745 dB 444.000000 MHz

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CH2 S11/M 1 U FS
3: 185.57 0 -48.211 0 7.4352 pF
444.000 000 MHz



CH1 Markers
1: -4.5356 dB
424.000 MHz
2: -4.1430 dB
434.000 MHz

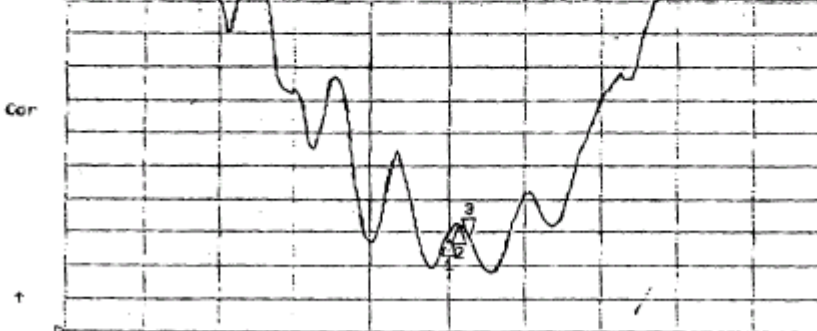


CH2 Markers
1: 194.88 0
-13.852 0
424.000 MHz
2: 205.36 0
-39.242 0
434.000 MHz

START 50.000 MHz STOP 800.000 MHz

START 50.000 MHz STOP 800.000 MHz

CH3 S11/M SUP REF 1 3: 3.6729 444.000 000 MHz



CH3 Markers
1: 3.8377
424.000 MHz
2: 4.1608
434.000 MHz

START 50.000 000 MHz

STOP 800.000 000 MHz