

Antenna Information

ThinkPad R32 Series

1. Antenna Specification

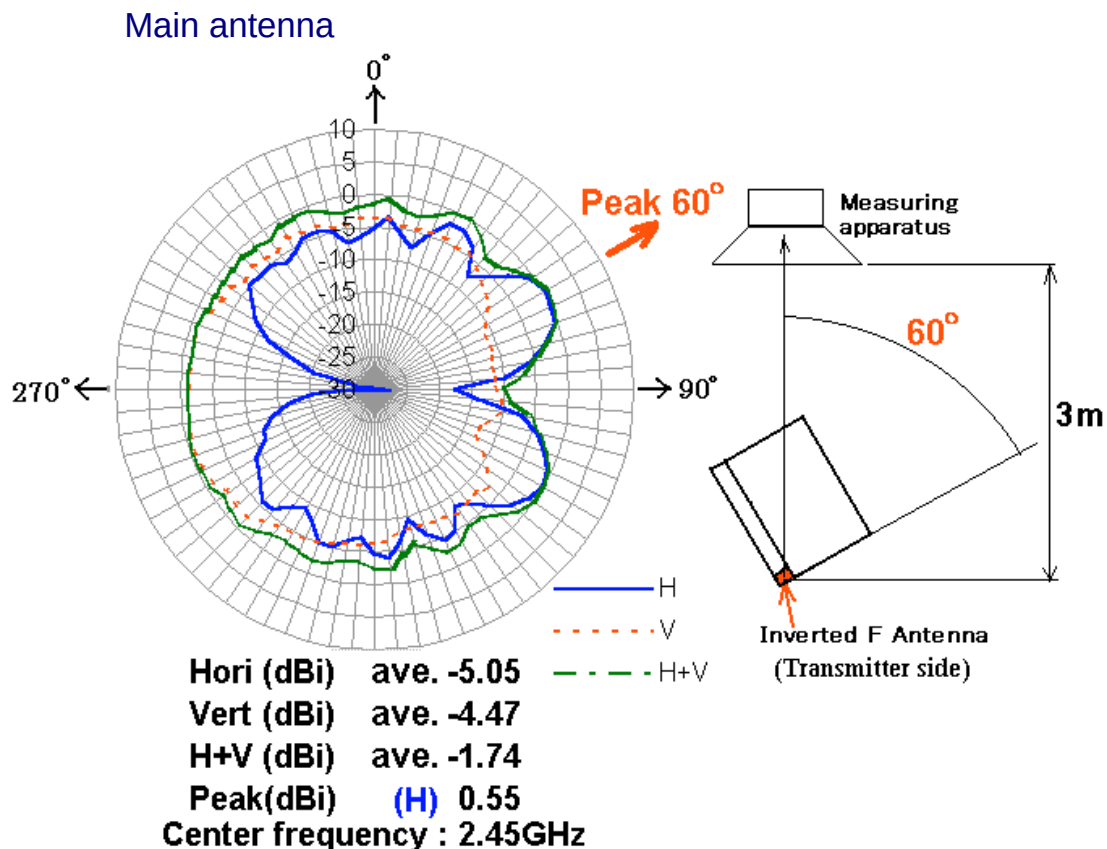
Transmission Antenna assembly overview

Designator	Manufacture	Antenna type	Cable type and length	Gain (dBi) Note 1)
46L6323 Main antenna	Wistron NeWeb Corp. (Taiwan)	Inverted F type Antenna	coax 450mm	0.55 dBi (peak)
46L6324 Auxiliary antenna			coax 185mm	- 0.94 dBi (peak)

Notes:

- 1a. Includes all cable losses.
- 1b. Antenna type should be Omni Directional and have gain of 2.0 dBi or less regarding the IBM/Lenovo internal specification.

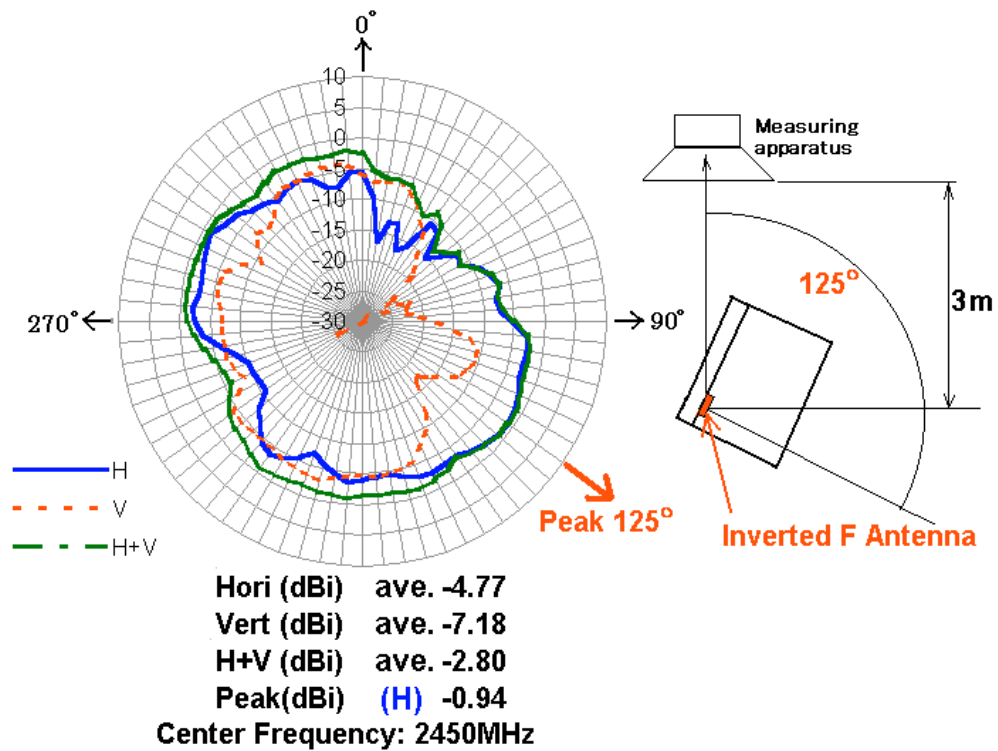
2. Radiation characteristic of antennas



Note1) The measurement was performed at 3 frequencies (2400, 2450, 2500MHz).

Note2) The maximum antenna gain was found around **60 degree** angle from measuring apparatus in **horizontal** polarization at the middle frequency (2.45GHz).

Auxiliary antenna

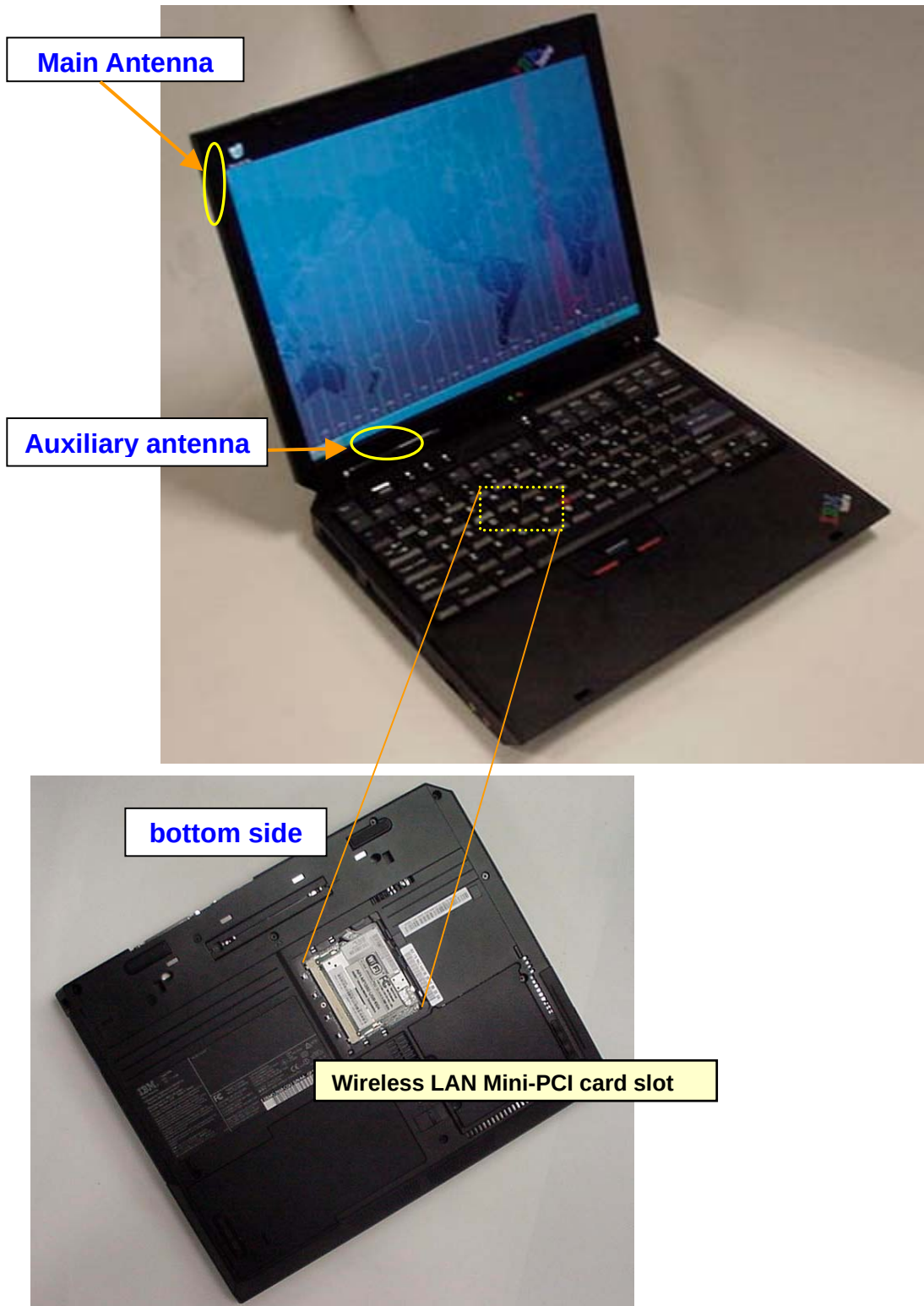


Note1) The measurement was performed at 3 frequencies (2400, 2450, 2500MHz).

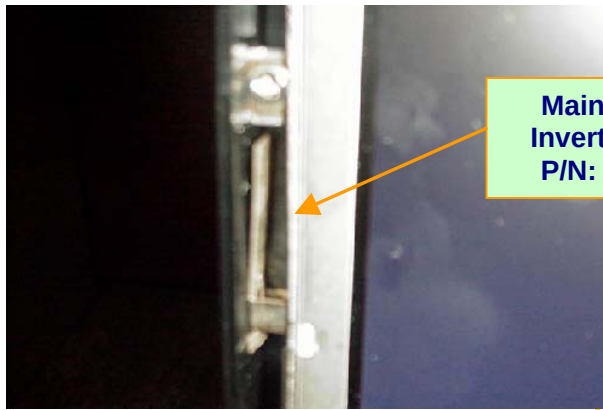
Note2) The maximum antenna gain was found around **125 degree** angle from measuring apparatus in **horizontal** polarization at the middle frequency (2.45GHz).

3. Host PC Information

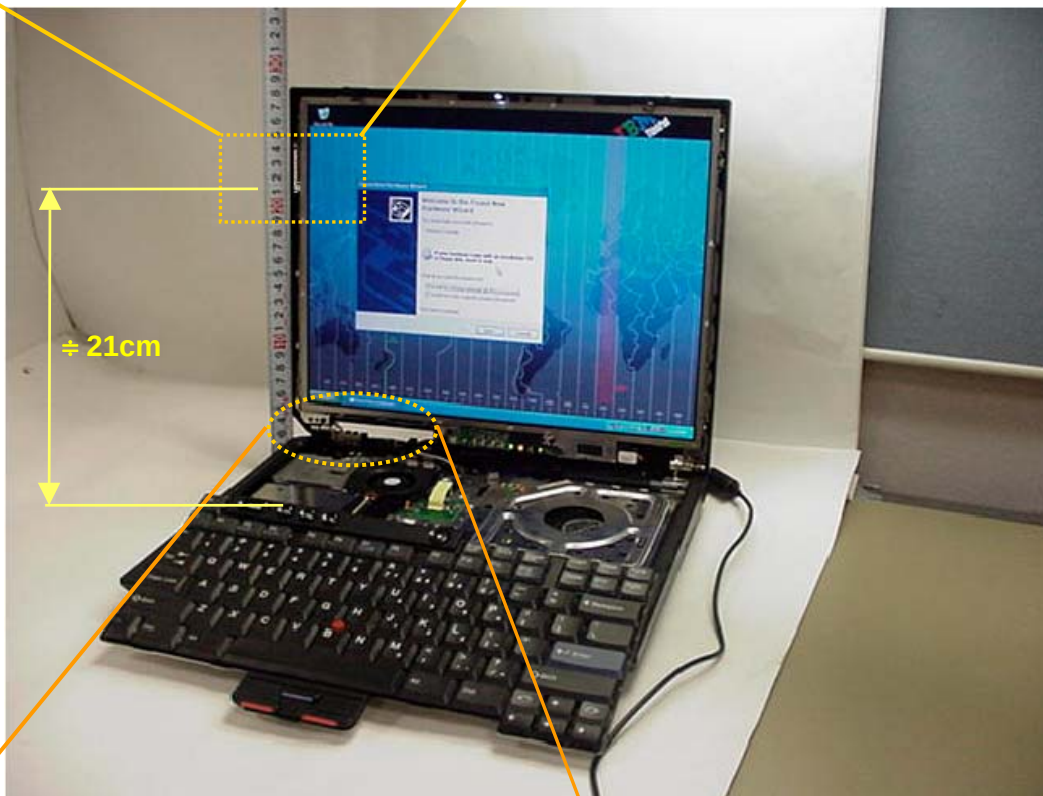
note) The two inverted F-figure type antennas are built in the left side of LCD and the hinge section of main body. Those diversity antennas are not used simultaneously. One of the antennas is selected automatically or manually to have a good quality of radio communication. The selected antenna performs transmission or receiving in half duplex alternatively.



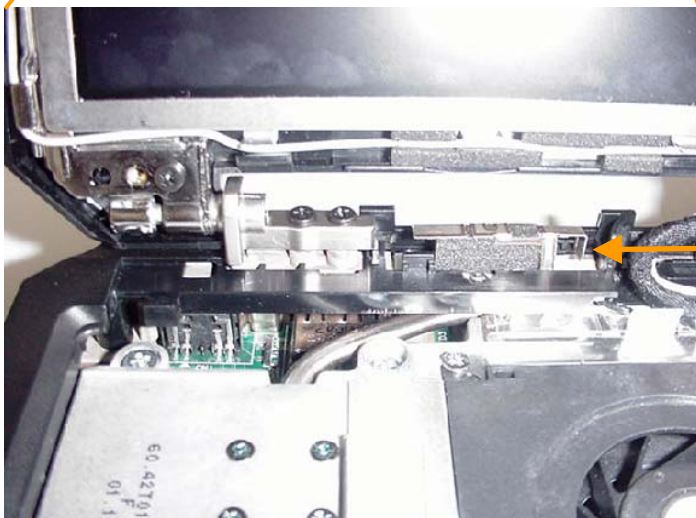
4 Antenna locations



Main antenna
Inverted-F type
P/N: 46L6323



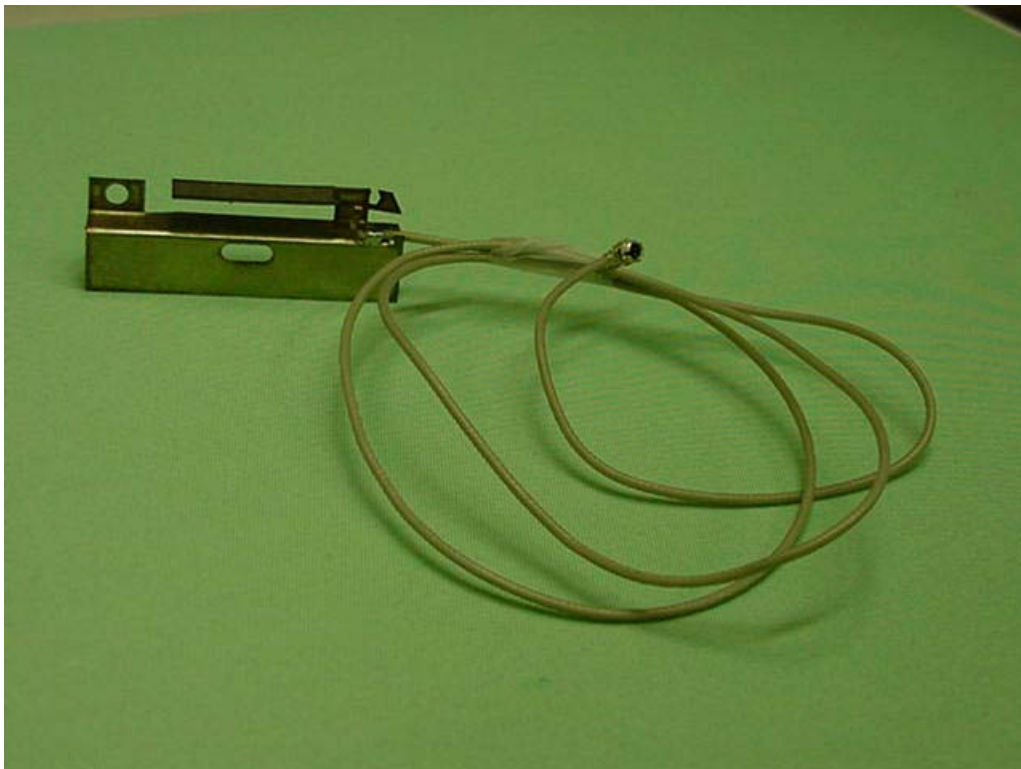
± 21cm



Auxiliary antenna
Inverted-F type
P/N: 46L6324

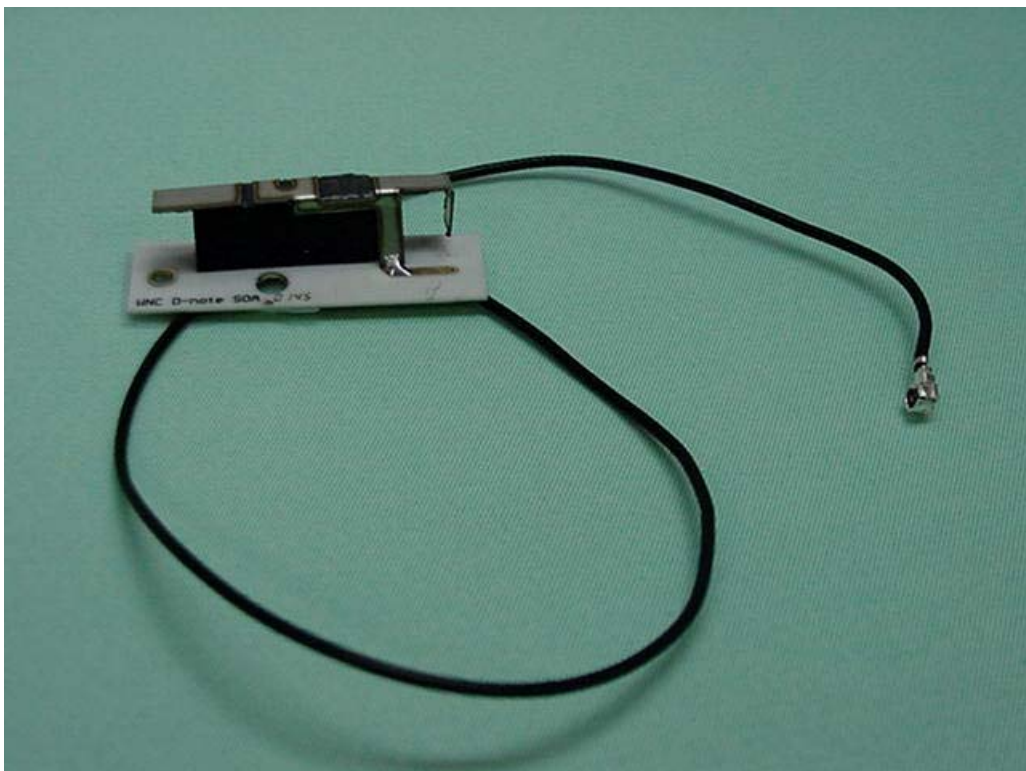
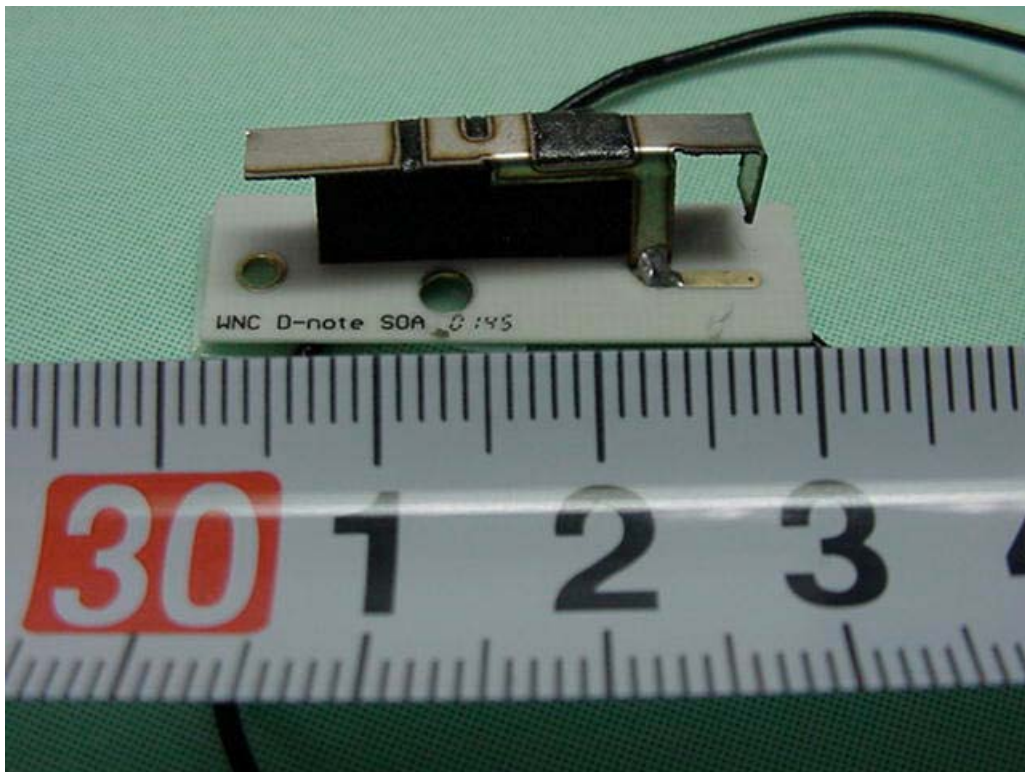
5 Exterior Photos of Antennas

Main Antenna



Manufacturer: Wistron NeWeb Corp.
IBM parts number: 46L6323
Inverted-F type antenna
Cable : coax 450 mm

Auxiliary Antenna



Manufacturer: Wistron NeWeb Corp.
IBM parts number: 46L6324
Inverted-F type antenna
Cable : coax 185 mm