

Host Unit Antenna Information

for

ThinkPad T40 Series

ThinkPad R50 Series

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IBM ThinkPad **T40** Series, LCD 15 inch model, and
IBM ThinkPad **R50** Series, LCD 14 and 15 inch models



The FCC ID and IC's Certification Number are visible when the keyboard assembly is removed.

ThinkPad T40 Series
LCD 14 inch



ThinkPad T40 Series
LCD 15 inch



ThinkPad R50 Series
LCD 14 inch



ThinkPad R50 Series
LCD 15 inch



2. Host PC Labeling

2.1 Labeling of T40 Series

Manufactured by IBM United Kingdom Ltd.
Greenock Scotland, Made in U.K.



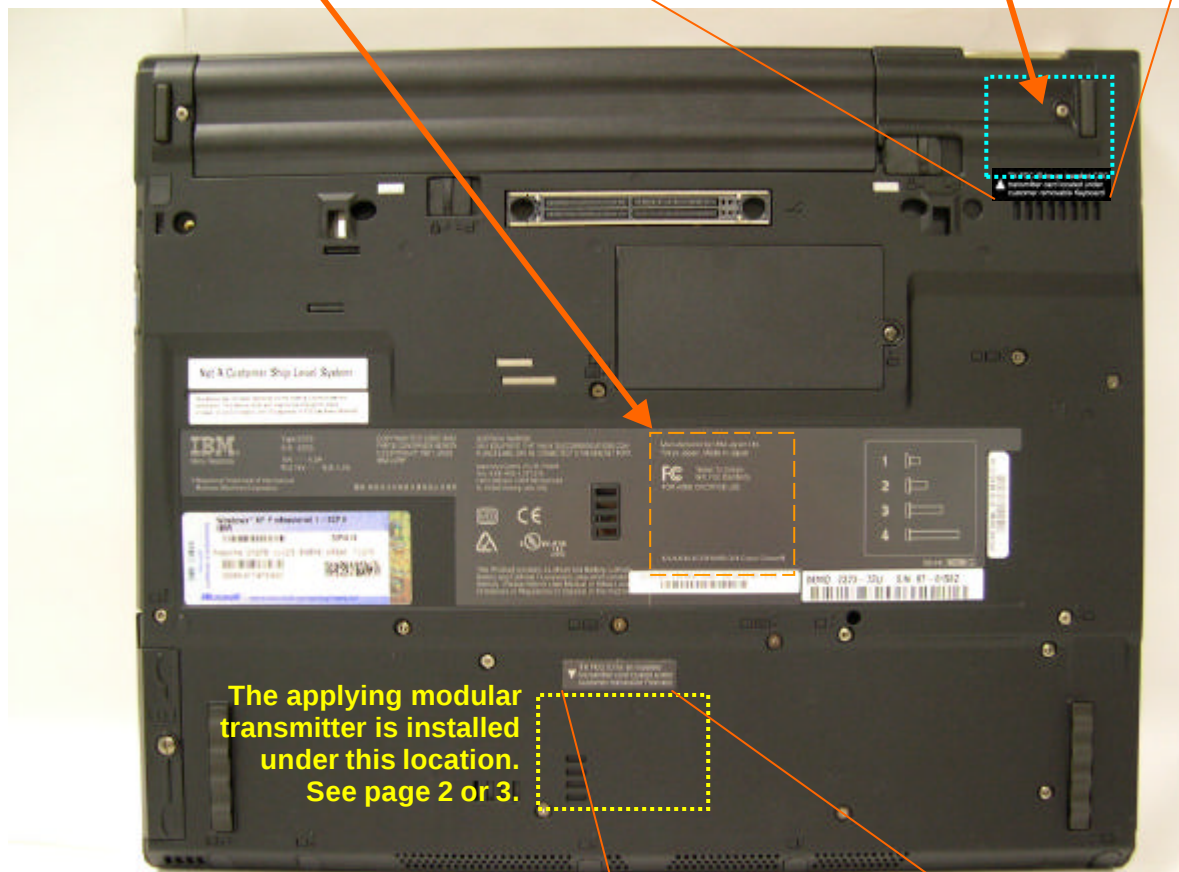
Tested To Comply
With FCC Standards
FOR HOME OR OFFICE USE

CANADA ICES/NMB-003 Class/Classe B

The host device (ThinkPad T40 Series) supports the applying transmitter and a built-in type Bluetooth LMA transmitter which was certified separately (FCC ID: ANO20020100MTN, Feb/26/2003 and May/04/2004).



TX FCC ID for an installed CDC transmitter card located under customer removable Keyboard



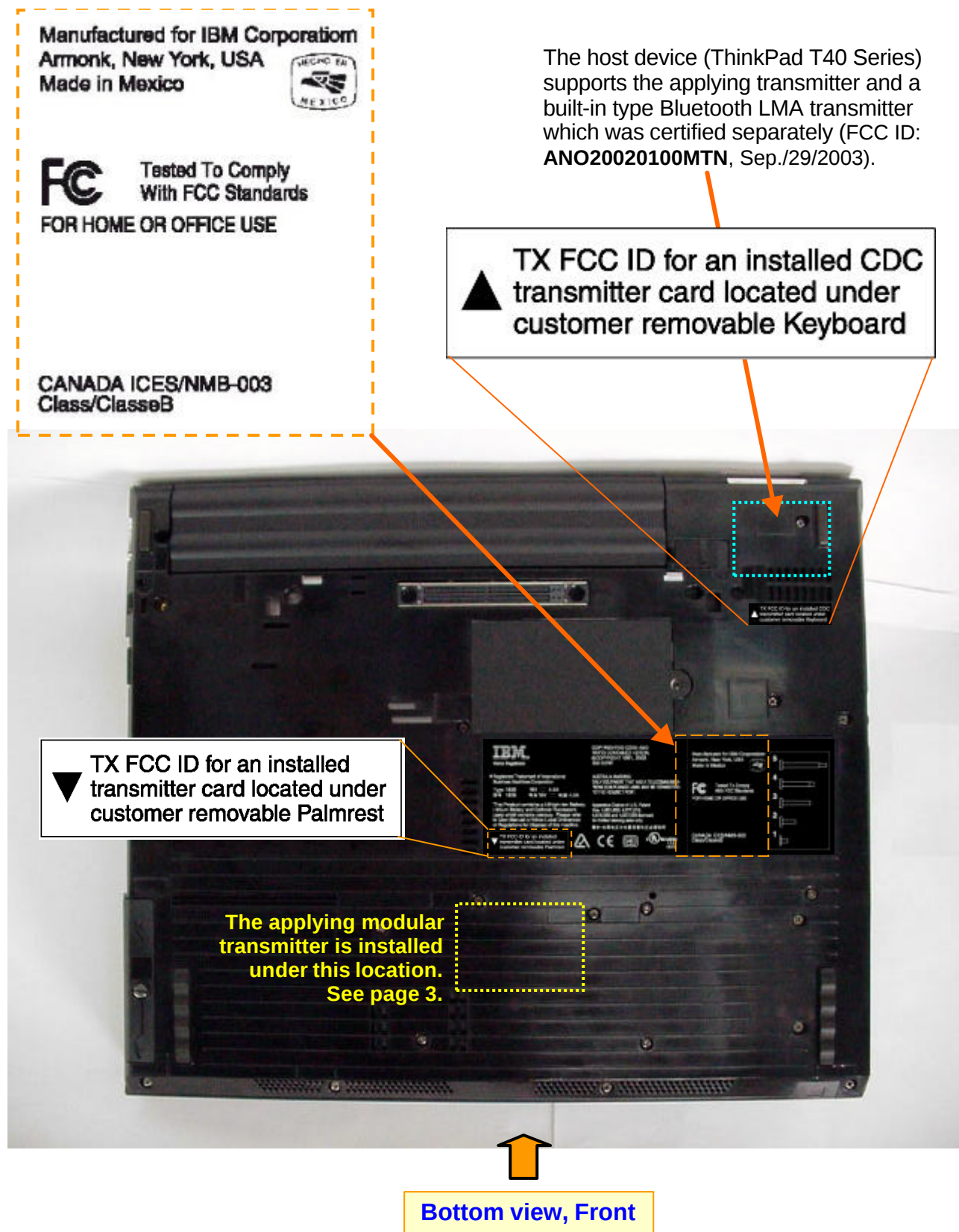
The applying modular transmitter is installed under this location.
See page 2 or 3.



Bottom view, Front side

TX FCC ID for an installed transmitter card located under customer removable Palmrest

2.2 Labeling of R50 Series



3. Antenna Specifications

3.1 Transmission Antenna assembly overview

Note 1): 2a. Includes all cable losses.

2b. Antenna type should be Omni Directional and have gain of 2.0 dBi or less for IEEE802.11b (2.4GHz band), regarding the IBM internal specification.

IBM ThinkPad T40 Series

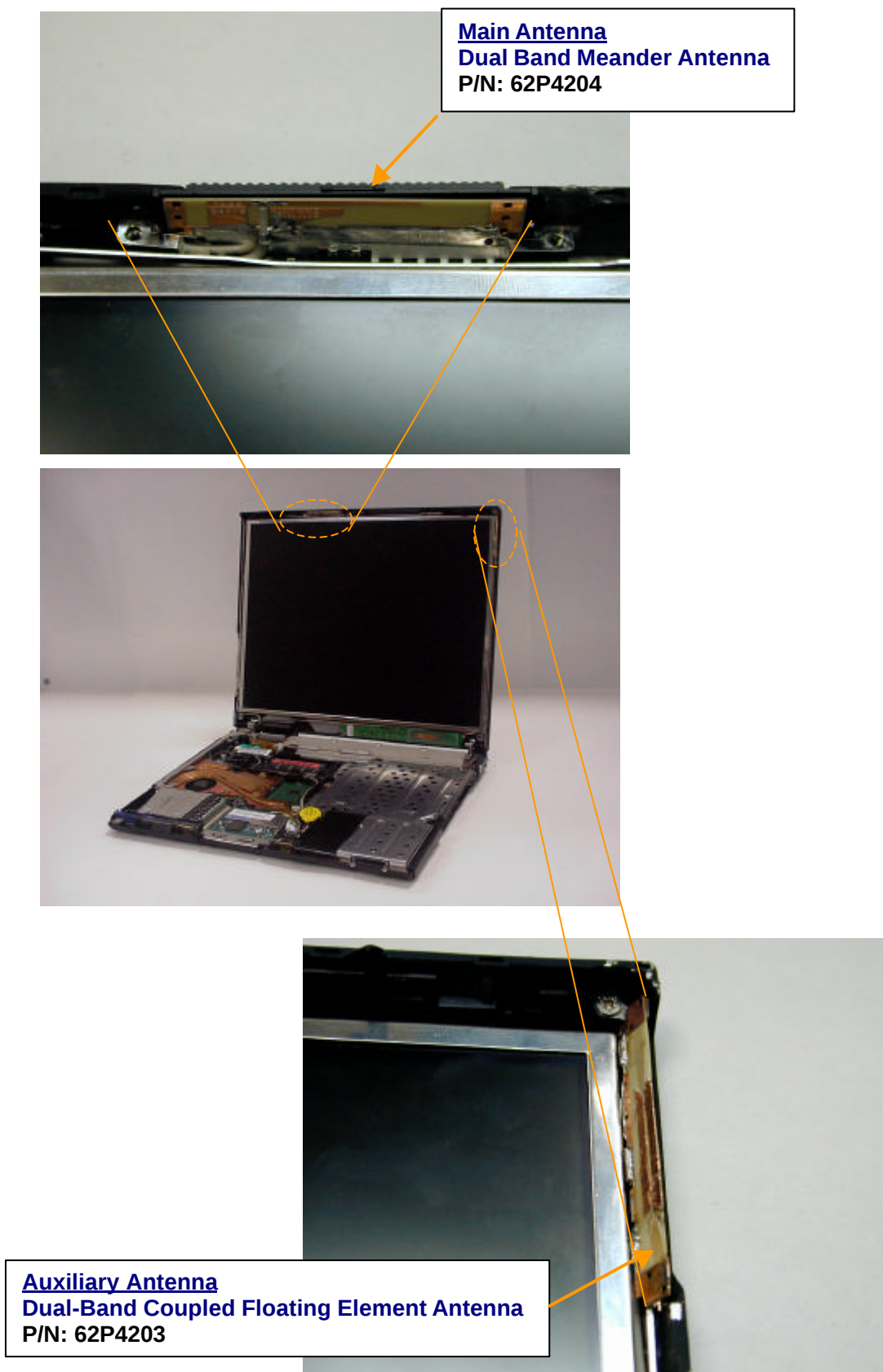
		Designator	Manufacture	Antenna type	Cable type and length	Peak Gain Note 1)	
LCD 14 inch Model	Main	62P4204	Foconn Electronics Inc. (R.O.C.)	Dual Band Meander Antenna	Coax 745 mm	5.2GHz band	0.83 dBi
	Auxiliary	62P4203		Dual-Band Coupled Floating Element Antenna	Coax 860 mm		0.36 dBi
LCD 15 inch Model	Main	91P6841	Hitachi Cable Ltd. (Japan)	Dual Band Meander Antenna	coax 755mm	5.2GHz band	2.00 dBi
	Auxiliary	91P6840			coax 580mm		0.82 dBi

IBM ThinkPad R50 Series

		Designator	Manufacture	Antenna type	Cable type and length	Peak Gain Note 1)	
LCD 14 inch Model	Main	91P6810	Hitachi Cable Ltd. (Japan)	Dual Band Meander Antenna	Coax 750 mm	5.2GHz band	2.66 dBi
	Auxiliary	91P6811			Coax 635 mm		1.37 dBi
LCD 15 inch Model	Main	91P6812	Hitachi Cable Ltd. (Japan)	Dual Band Meander Antenna	coax 775mm	5.2GHz band	1.68 dBi
	Auxiliary	91P6813			coax 670mm		2.84 dBi

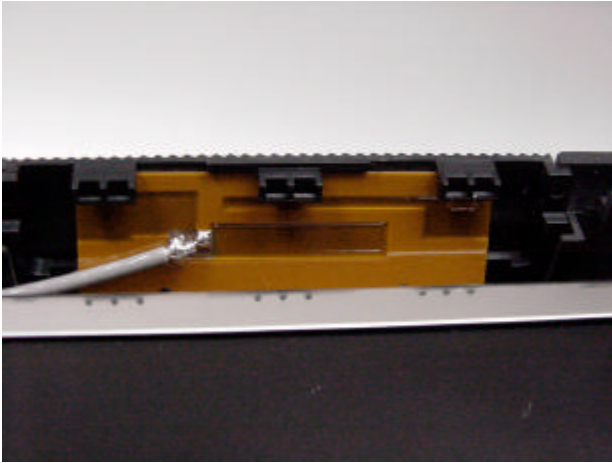
3.2 Antenna Locations

3.2.1 IBM ThinkPad T40 Series, LCD 14 inch model



3.2.2 IBM ThinkPad T40 Series, LCD 15 inch model

Main antenna
Dual Band Meander antenna
P/N: 91P6841



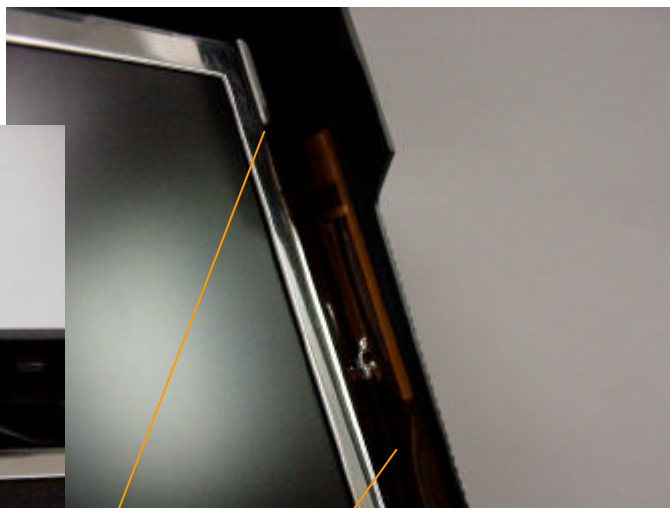
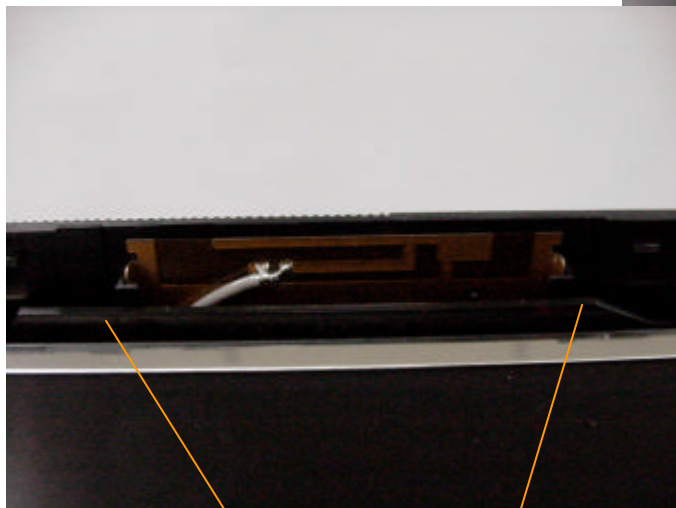
Auxiliary antenna
Dual Band Meander antenna
P/N: 91P6840



3.2.3 IBM ThinkPad R50 Series (14 and 15 inch)

Main antenna
Dual Band Meander Antenna
P/N: 91P6810 (14 inch)
P/N: 91P6812 (15 inch)

Auxiliary antenna
Dual Band Meander Antenna
P/N: 91P6811 (14 inch)
P/N: 91P6813 (15 inch)



3.3 Exterior Photos of Antennas

3.3.1 IBM ThinkPad T40 Series, LCD 14 inch model

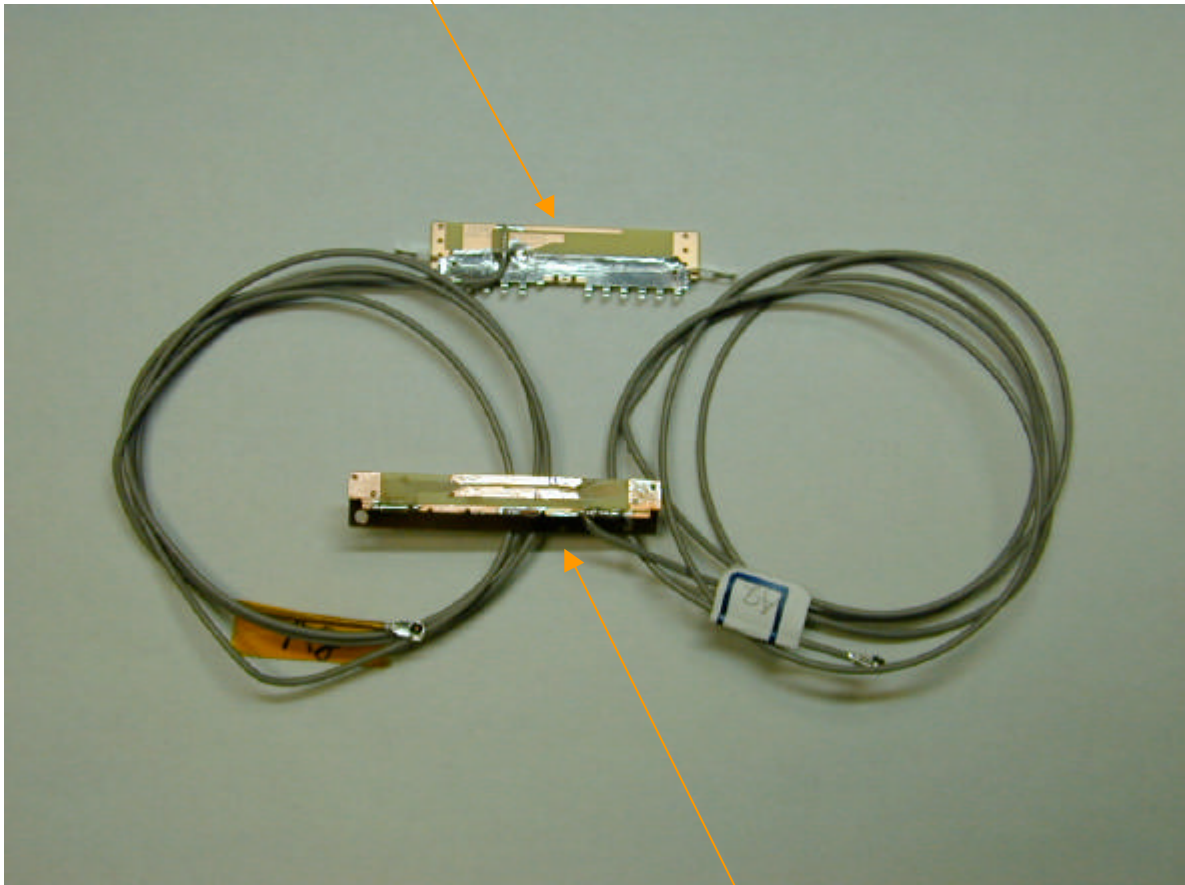
Main Antenna

Manufacturer: Foxconn Electronics Inc.

Parts Number: 62P4204

Dual Band Meander antenna

Cable: coax 740mm



Auxiliary Antenna

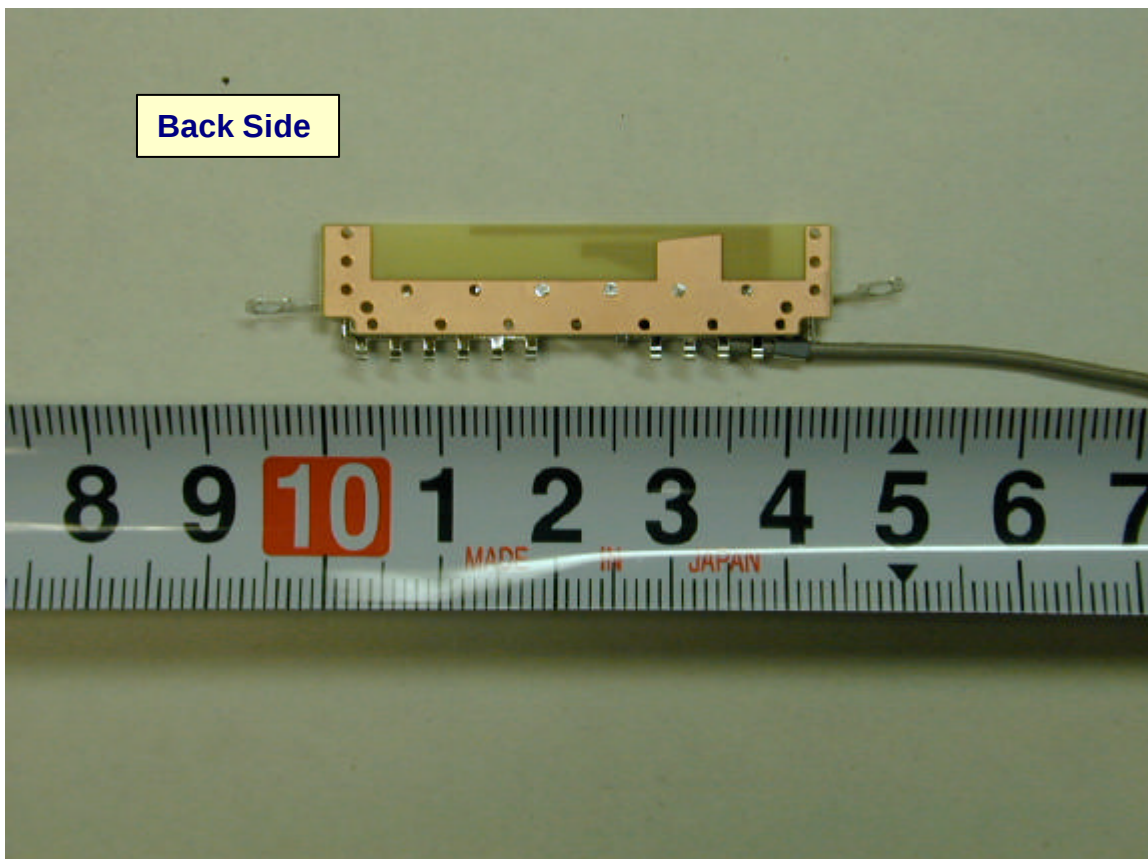
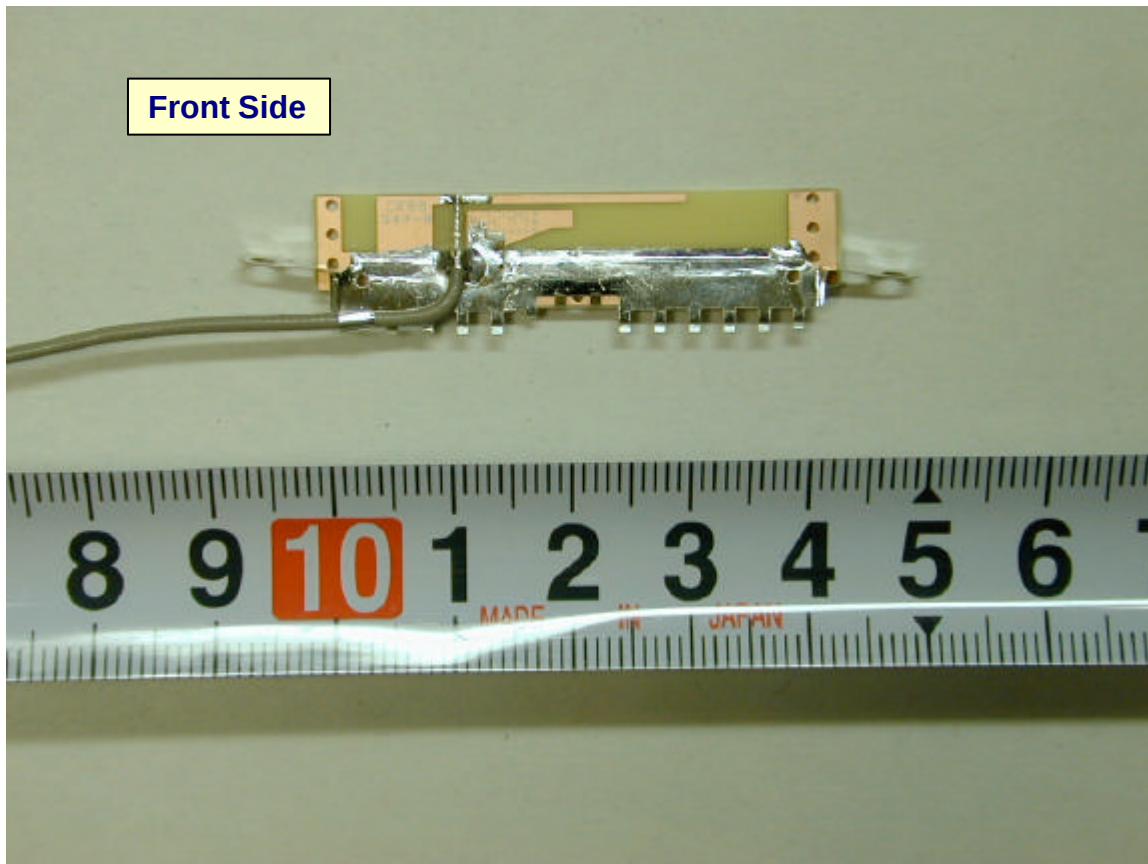
Manufacturer: Foxconn Electronics Inc.

Parts Number: 62P4203

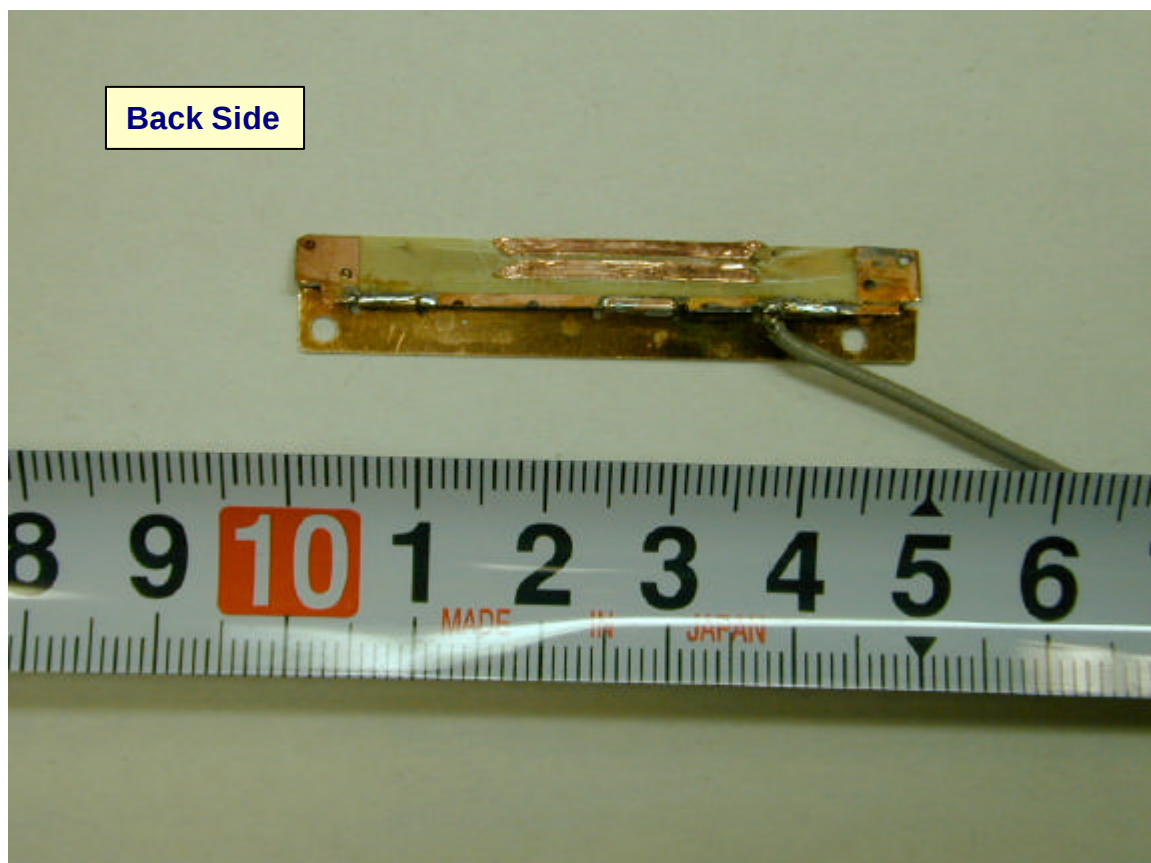
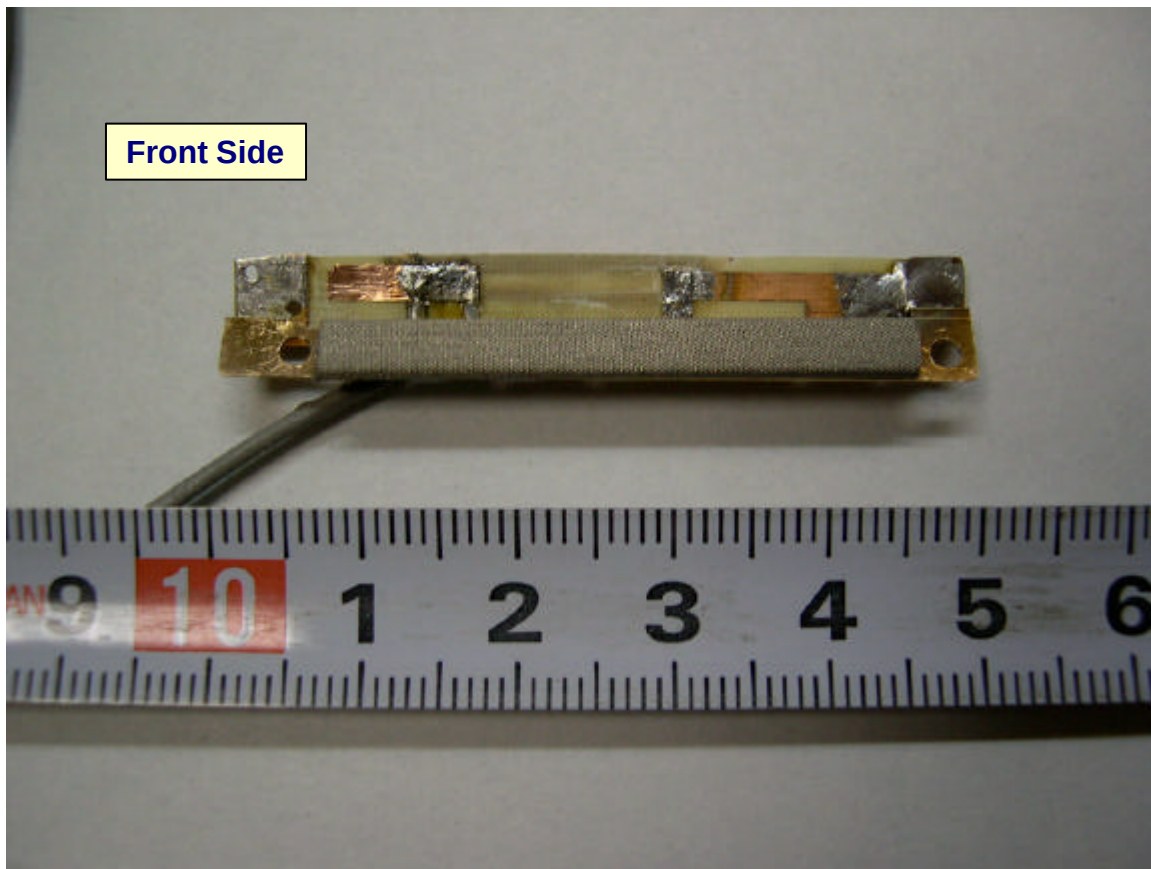
Dual-Band Coupled Floating Element Antenna

Cable : coax 845mm

Main Antennas for ThinkPad T40 Series, LCD 14 inch model



Auxiliary Antennas for ThinkPad T40 Series, LCD 14 inch model



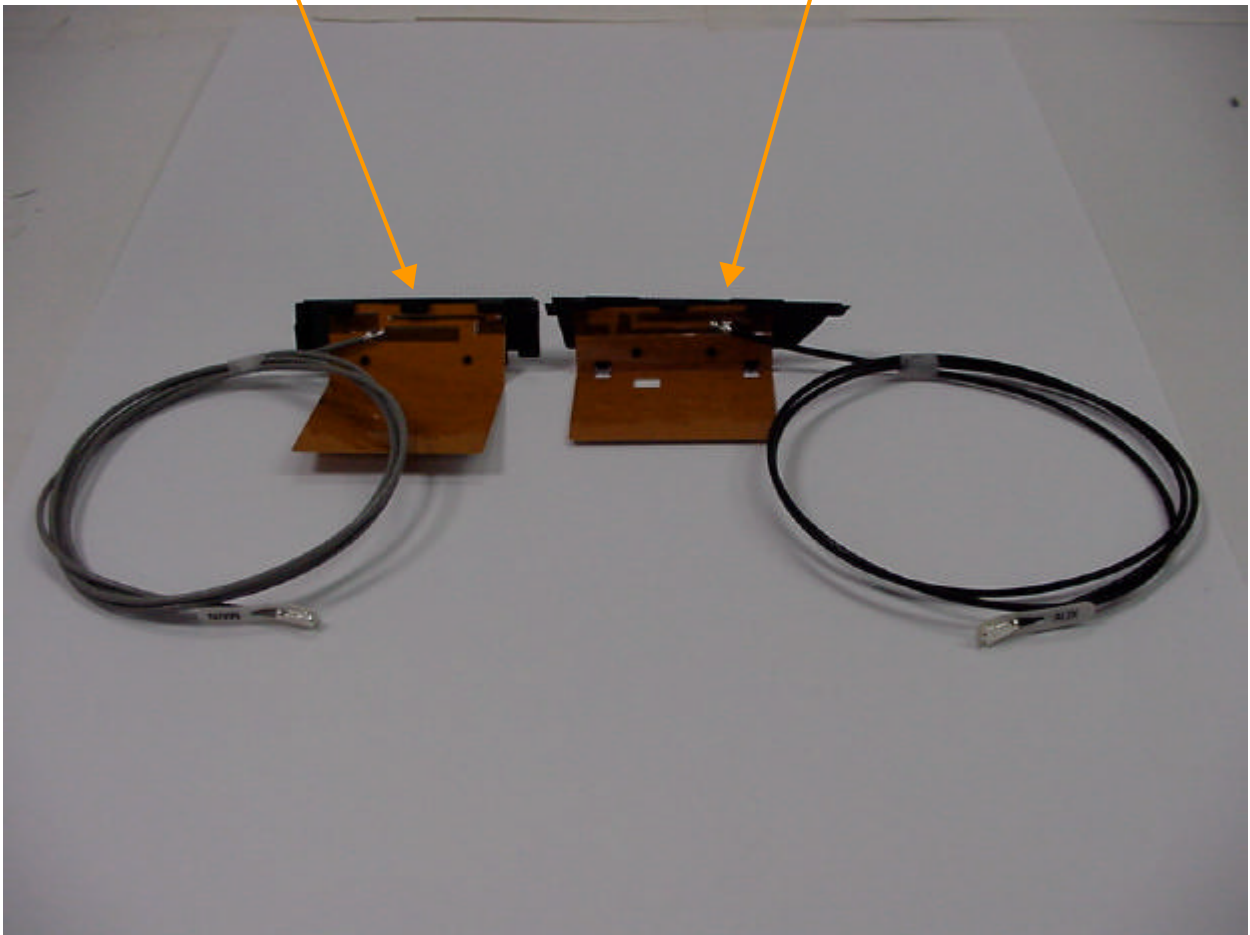
3.3.2 IBM ThinkPad T40 Series, LCD 15 inch model

Main antenna

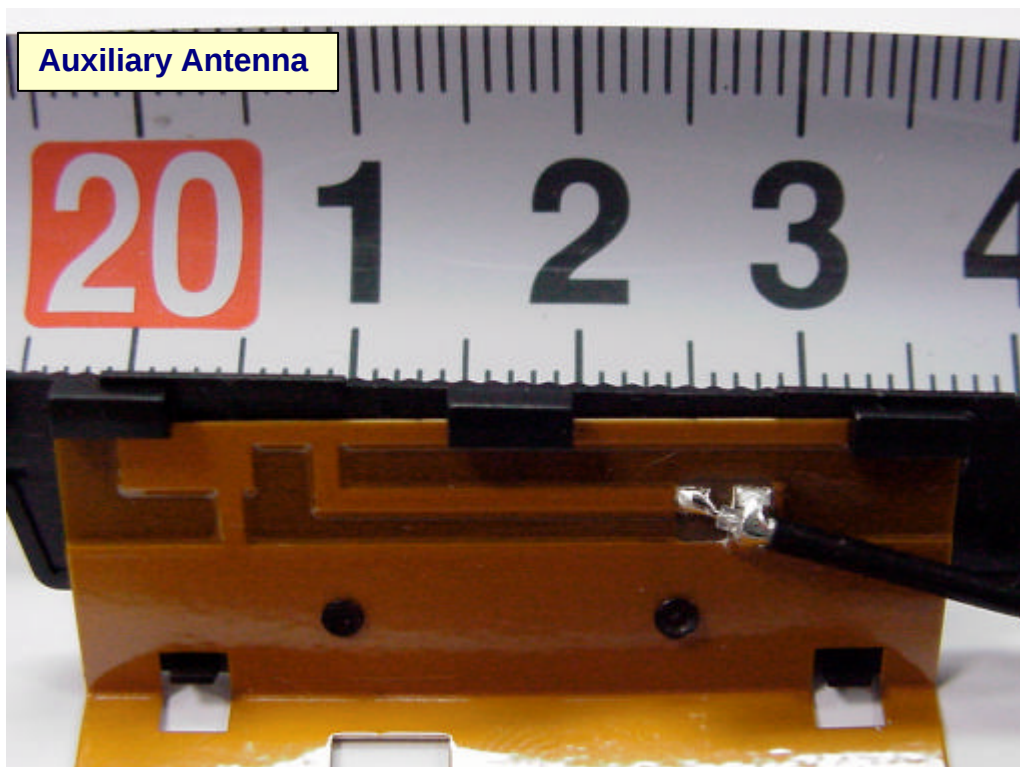
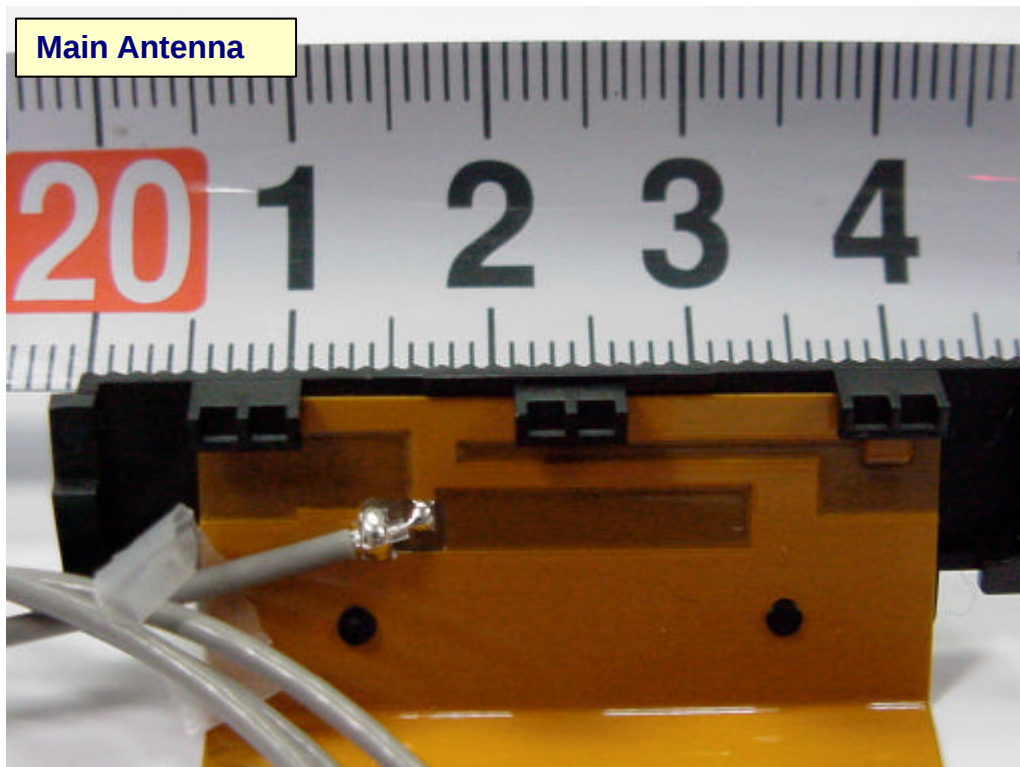
Manufacturer: Hitachi Cable Ltd.
Parts Number: 91P6841
Dual Band Meander antenna
Cable : coax 755 mm

Auxiliary antenna

Manufacturer: Hitachi Cable Ltd.
Parts Number: 91P6840
Dual Band Meander antenna
Cable : coax 580 mm



Antennas for ThinkPad T40 Series, LCD 15 inch model



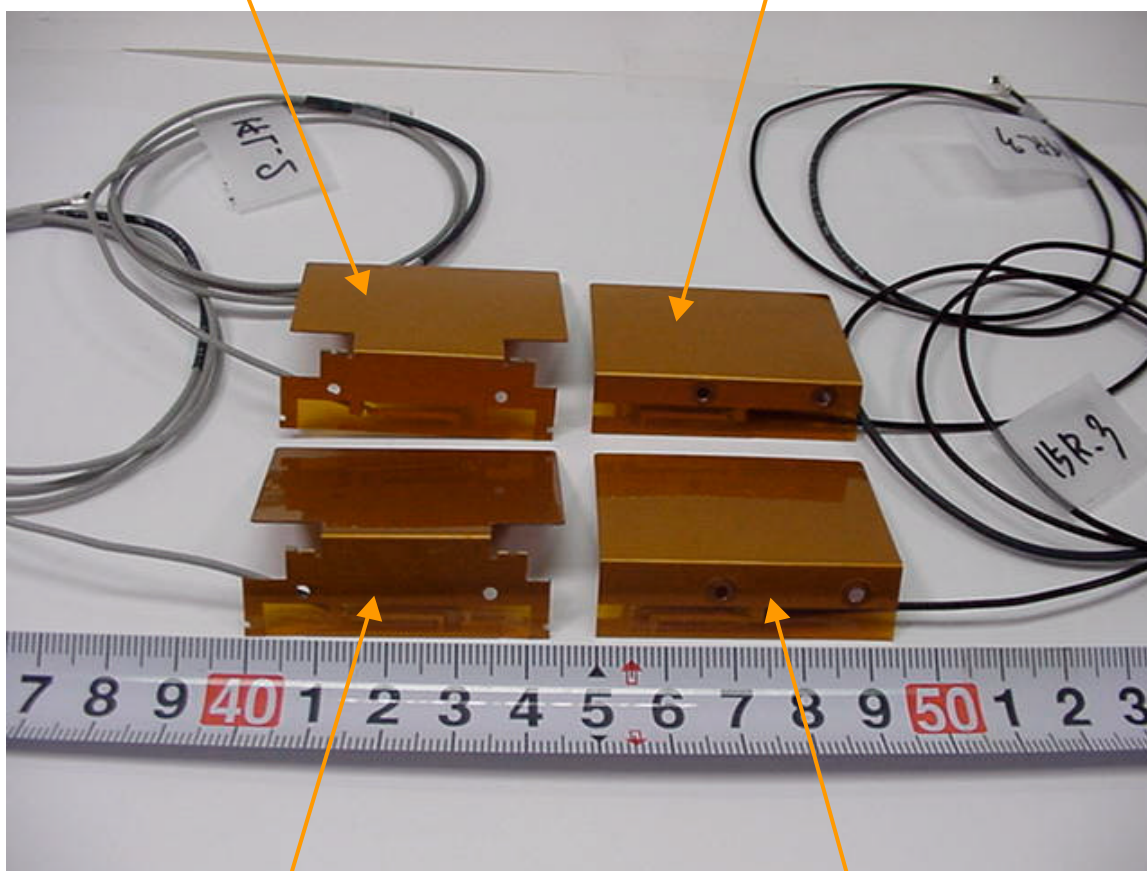
3.3.3 IBM ThinkPad R50 Series

Main antenna for 14 inch model

Manufacturer: Hitachi Cable Ltd.
Parts Number: 91P6810
Dual Band Meander antenna
Cable : coax 750 mm

Auxiliary antenna for LCD 14 inch model

Manufacturer: Hitachi Cable Ltd.
Parts Number: 91P6811
Dual Band Meander antenna
Cable : coax 635 mm



Main antenna for LCD 15 inch model

Manufacturer: Hitachi Cable Ltd.
Parts Number: 91P6812
Dual Band Meander antenna
Cable : coax 775 mm

Auxiliary antenna for LCD 15 inch model

Manufacturer: Hitachi Cable Ltd.
Parts Number: 91P6813
Dual Band Meander antenna
Cable : coax 670 mm

Antennas for ThinkPad R50 Series, LCD 14 inch model

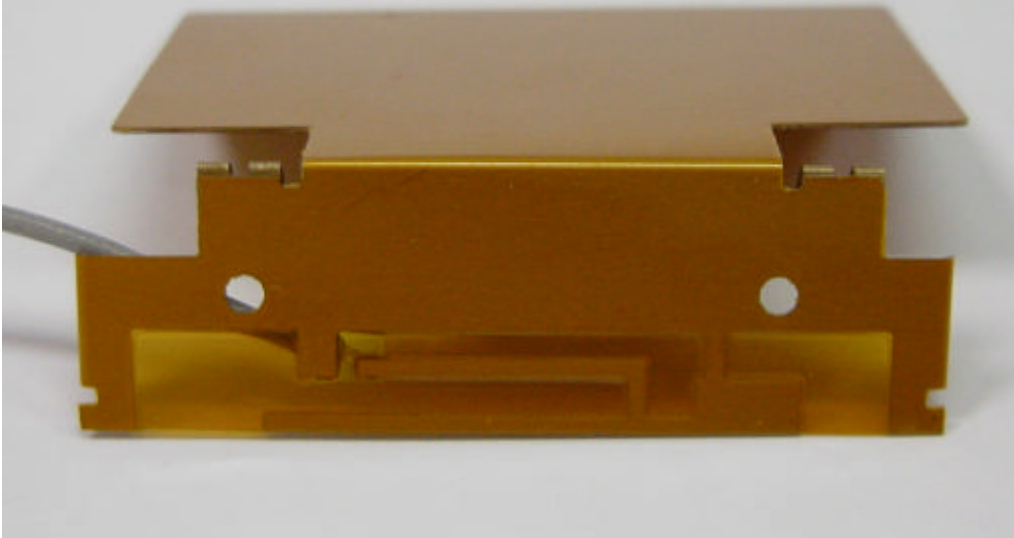
Main Antenna

Manufacturer: Hitachi Cable Ltd.

Parts Number: 91P6810

Dual Band Meander antenna

Cable : coax 750 mm



Auxiliary Antenna

Manufacturer: Hitachi Cable Ltd.

Parts Number: 91P6811

Dual Band Meander antenna

Cable : coax 635 mm



Antennas for ThinkPad R50 Series, LCD 15 inch model

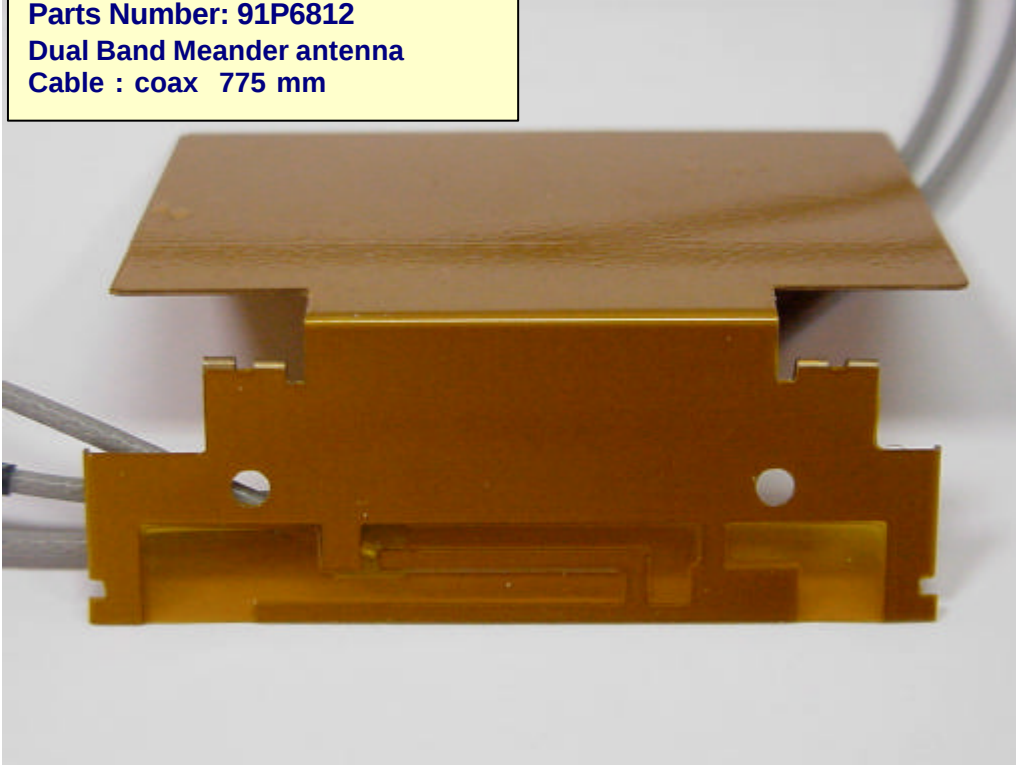
Main Antenna

Manufacturer: Hitachi Cable Ltd.

Parts Number: 91P6812

Dual Band Meander antenna

Cable : coax 775 mm



Auxiliary Antenna

Manufacturer: Hitachi Cable Ltd.

Parts Number: 91P6813

Dual Band Meander antenna

Cable : coax 670 mm

