

Chai/CT-10

HW Change list



History

2004-09-06	Submitted by BY Laue

Antenna Specification

The tuning up for CHAI modified antenna just focus on the Low band performance improvement and the different version compared is listed as below..

1.1 Voltage Standing Wave Ration (VSWR)

The VSWR will be below or equal to the value in table 1

VSWR, free space	Frequency (MHz)	Last version	Current version
GSM850 TX	880-915	3.1:1	1.76:1
GSM850 RX	925-960	3.3:1	3.81:1
PCS TX	1850-1910	2.3:1	4.0:1
PCS RX	1930-1990	4.2:1	3.64:1

Table 1

1.2 Antenna Efficiency

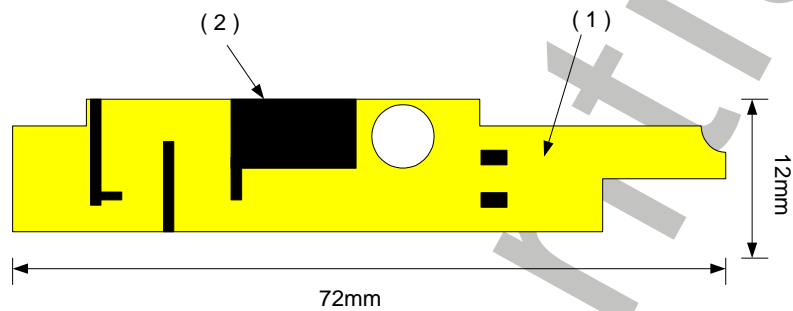
The antenna efficiency is the average value over the specified frequency band for GSM850 and PCS1900 . The antenna efficiency includes the reflection loss due to impedance mismatch at the antenna in free space.

Average efficiency	Frequency (MHz)	Last version	Current version
GSM850	880-960	35%	48.8%
PCS	1850-1990	45%	28.8%

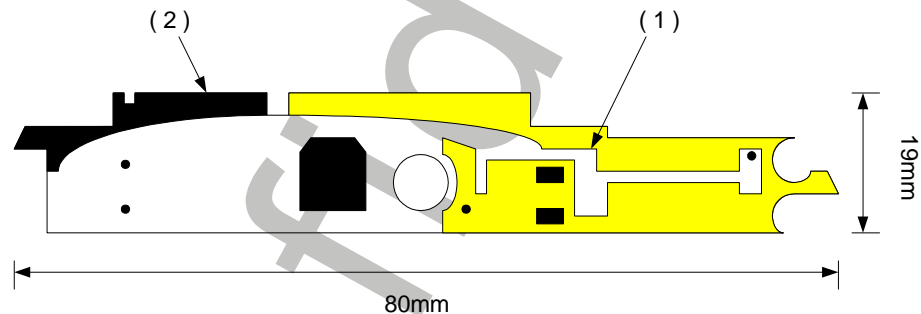
Table 2

2. Antenna Dimension

The Antenna of CHAI mobile is a GSM dual-band antenna, as the graph shows below, the section (1) on the plane is the radiated part, and the section (2) is the antenna plastic base. The antenna type of CHAI is PIFA, and the dimension is for last version is 72mm×12mm(max) and for current version is 80mm×19mm(max).



Last version CHAI Antenna



Current version CHAI Antenna



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