

3.5 Antenna Specifications

Antenna specifications for this module have been modeled using a two-layer test board.

Table 5 Antenna Specifications

Item	Value			Unit	Note
	Min	Typ	Max		
DC Resistance	0.5	1	2	Ω	
AC Impedance		50		Ω	
Frequency	13.06	13.56	14.06	MHz	
Q factor	25	30	35		
Antenna Type	FR4 Loop Coil				Add the Ferrite sheet
Size	(45 $\pm$ 0.3) X (35 $\pm$ 0.3)			mm	

3.6 Power Consumption

Table 6 Current Consumption

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
I_{HPD}	Hard power down current	V _{BAT} =3.6V, V _{EN} =0V	-	10	24	μ A
I_{STBY}	Standby state current	V _{BAT} =3.6V	-	20	35	μ A
I_{ACT}	Active state current	V _{BAT} =3.6V	-	4.55	-	mA
I_{TVDD}	Transmitter supply current	V _{BAT} =3.6V	-	240	-	mA

*Active state : Idle and Listenser modes.

3.7 Thermal Protection

Table 7 Thermal Protection

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
T_{OVERTEMP}	Temperature protection trigger		-	125	125	$^{\circ}$ C

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