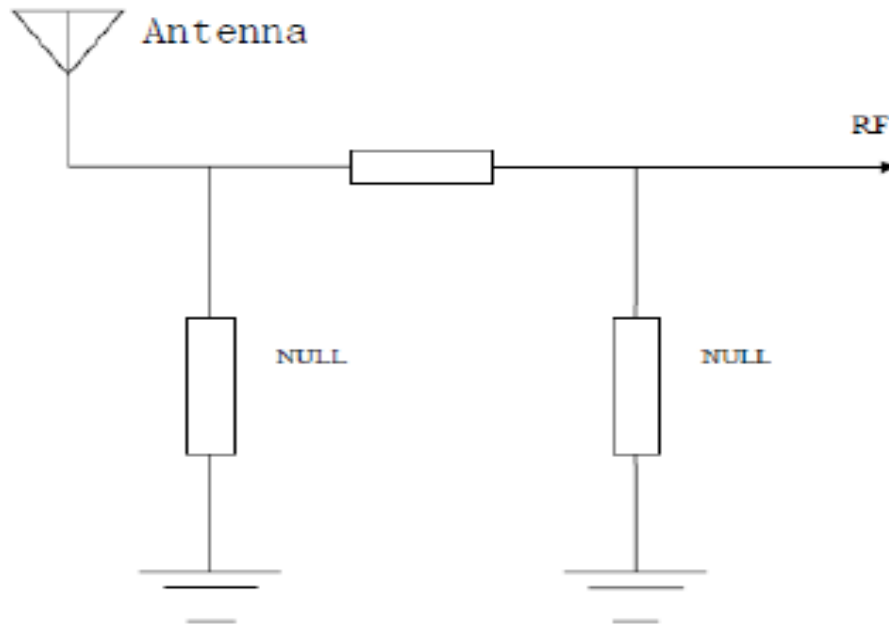


Antenna Matching circuit



Matching circuit

BT RF specifications

Transmitter Characteristics---Basic Data Rate(VBAT=4.2V, TA = + 27 °C, unless otherwise specified)

SYMBOL	PARAMETER	CONDITION	MIN	TYP.	MAX	UNIT
General Specification						
	Max RF output power		/	0	4	dBm
	Power control step		/	3	/	dB
	20 dB bandwidth		/	0.95	/	MHz
	Adjacent channel transmitter power	M--N =2MHz	/	/	-40	dBm
		M--N >=3MHz	/	/	-44	dBm
△ f1avg	Maximum modulation		/	152	/	kHz
△ f2avg/△ f1avg			/	0.97	/	/
	ICFT		/	/	10	kHz
	Drift (1 slot packet)		/	10	/	kHz
	Drift (5 slot packet)		/	10	/	kHz

FM FR specifications

(VDD=3,2 to 5,5 V, TA=-25°C to 85 °C, unless otherwise specified)

SYMBOL	PARAMETER	CONDITION	MIN	TYP	MAX	UNIT
General Specification						
F_{in}	FM Input Frequency	BAND=00	76		108	MHz
V_{rf}	Sensitivity ¹²³	(S+N)/N=26dB		2		μV EMF
R_{in}	LNA input resistance ⁷			150		Ω
C_{in}	LNA input capacitance ⁷		2	4	6	pF
(S+N)/N	Maximum signal plus noise to noise ratio ^{1,2}		47	55	-	dB
THD	Audio total harmonic distortion ^{1,3,6}			0.15	0.2	%
RL	Audio output Loading resistance	Single-ended		32		Ω
V_{corn_rfin}	Pins LNA _N and LNA _P Input Common Mode Voltage			0		V
V_{corn}	Audio output common mode voltage		0.95	1	1.05	V

1. Version 是 5.0 是支持 Mode BDR EDR LE 中的哪些? BR/EDR, 向下兼容 BT3.0,

2. 1, 2.0 or 1.2

2. 天线平均输出 -1.2dBm

天线最大输出 1.2dBm

3. Antenna type: 板载 PCB 天线

4. Antenna Gain: 1.2 (avg gain xy-plane)

5. 是 RX

6. 是 Hopping

7. Transmit Frequency 是 2.4-2.5G

8. Modulation Type 是 GFSK