

Tune Up Description

a. Frequency Range

GSM 850 TX 824-849 MHz
 RX 869-894 MHz
 GSM 900 TX 880-915 MHz
 RX 925-960MHz
 DCS 1800 TX 1710-1785MHz
 RX1805-1880MHz
 PCS 1900 TX 1850-1910MHz
 RX 1930-1990MHz

b. Channel Space:200KHz

c. Total Channel Number: Carriers*8(TDMA)

d. Modulation:GMSK

e. Frequency Tolerance: $\leq \pm 0.1\text{ppm}$

1) Frequency Distribution

	GSM 850	EGSM900	DCS1800	PCS1900
Transmit (TX):	824-849MHZ	880-915MHZ	1710-1785MHZ	1850-1910MHZ
Receive(RX):	869-894MHZ	925-960MHZ	1805-1880MHZ	1930-1990MHZ
2) Absolute channel Number:	128-251	1-124	512-885	512-810
3) TX RX Space:	45MHZ	45MHZ	95MHZ	80MHZ
4) TX/RX time slot Differential:	3	3	3	3
5) Modulation bit rate:	270.833kbit	270.833kbit	270.833kbit	270.833kbit
6) Frame Cycle:	4.615ms	4.615ms	4.615ms	4.615ms
7) Slot Cycle:	576.9us	576.9us	576.9us	576.9us
8) Bit Cycle time:	3.692us	3.692us	3.692us	3.692us
9) Channel Space:	200KHZ	200KHZ	200KHZ	200KHZ
10. Time slot /Frame:	8	8	8	8
11. Modulation Type:	GMSK	GMSK	GMSK	GMSK
12 Max TX Power:	2W (33dbm)	2W (33dbm)	2W (33dbm)	2W (33dbm)
13. Min TX Power:	2. 0mW	3.3mW	1mW	1 . 3mW
14 RF Impedance:	50 Ω	50 Ω	50 Ω	50 Ω
15. Synthesizer Frequency:				
T X :	3296-3396MHZ	3520-3660MHZ	3420-3570MHZ	3700-3820MHZ

R X	3476-3576MHZ	3700-3840MHZ	3610-3760MHZ	3860-3980MHZ
18.Crystal Frequency:	26MHZ			
19.Operating Voltage:	Max:4.2V	Normal:3.8V	Min:3.6V	
20. Demodulation Type:	I/Q			
21.Max Frequency Tolerance:	± 0.1 PPM			
22. Max Phase Error:	Peak Value <20 degree	RMS<5 degree		
23.. RX bit error rate:	(-102dbm: 2.44%			
24. Conduct Spurious:	9Khz-1GHZ	≤ -36 dbm		
	1GHZ-12.75GHZ	≤ -30 dbm		
25.Class3 Bluetooth Frequency	2.4-2.5Ghz			