

1. Specification

1-1. General

Item	Specification
Frequency Range Transmitter Receiver	1850 ~ 1910 MHz 1930 ~ 1990 MHz
Channel Bandwidth	CDMA1.25MHz
Channel Spacing	50kHz
Number of Channels	1200
Duplex Separation	80MHz
Type of Emission	G7 W
Input/Output Impedance	50 ohms
Intermediate Frequency Transmitter Receiver	130.38MHz 210.38MHz
Local Frequency Transmitter Receiver	1st($F_{TX}-130.38$), 2nd(260.76MHz) 1st($F_{RX}-210.38$), 2nd(420.76MHz)
TCXO Frequency	19.68MHz
Frequency Stability	($F_{RX}-80MHz$) $\pm 150Hz$
Operating Temperature	-20℃ ~ +50℃
Supply Voltage	9VDC nominal
Current Consumption(Average) Standby Talk	100mA(Non-slot mode) 470mA(at +10dBm)
Size and Weight	200×170×48.5mm/1000g

1-2. Transmitter

Item	Specification
Waveform Quality	0.944 or more
Open Loop Power Control Range -25dBm -65dBm -104dBm	-60.5dBm ~ -41.5dBm -20.5dBm ~ -1.5dBm +15.0dBm ~ +30.0dBm
Minimum Tx Power Control	-50dBm below
Closed Loop Power Control Range	± 24 dB
Maximum RF Output Power	200mW(+23dBm)
Occupied Bandwidth	1.23MHz
Conducted Spurious Emissions @ 1.25MHz	-42dBc/30kHz

1-3. Receiver

Item	Specification
Rx Sensitivity and Dynamic Range (Rate Set 1)	-104dBm, FER=0.5% or less -25dBm, FER=0.5% or less
Conducted Spurious Emission 1930 ~ 1990 MHz 1850 ~ 1910 MHz All Other Frequency	below -81 dBm below -61 dBm below -47 dBm
Single Tone Desensitization Rx power = -101dBm Tone power + -30dBm Tone offset from carrier = ± 1.25 MHz	FER=lower than 1%
Intermodulation Spurious Response Attenuation Rx power = -101dBm Tone power 1 = -43dBm Tone power 2 = -43dBm Tone 1 offset from carrier = ± 1.25 MHz Tone 2 offset from carrier = ± 2.05 MHz	FER=lower than 1%

1-4. Antenna

Item	Specification
Frequency	1.85 ~ 1.99 GHz
Gain	2dBi
Impedance	50 ohms
Size	164.7±1.5 mm