TDD-1430-2*5W RF Module Specifications (Dual Transmit, Dual Receive)

SN:2023053102

Test Project	Indicators	Remark
———————— LNA Section ————————		
Operating frequency (MHz)	1420～1530MHz	
Maximum output power (dBm)	0±1	
Maximum gain (dB)	10±1	
Gain flatness (dB)	≤1.5(Peak-to-peak value within the operating frequency band)	
Input port VSWR	≤1.4	
Output port VSWR	≤1.4	
ACPR(WCDMA)	ACPR of adjacent channel ≤ -45 dBc	
stray emission	Within the operating frequency band:≤-36dBm/30kHz Outside the operating frequency band:≤-30dBm/30kHz	
Maximum input level	≥-10dBm	
Uplink and downlink isolation	≥70dB	
Power stability	±1dB@25℃～+55℃	
Gain stability	±1dB@25℃～+55℃	
———————— PA Section ————————		
Operating frequency (MHz)	1420～1530MHz	P1=43dBm
Output power (dBm)	37±1 dBm	
Maximum gain (dB)	15±1	
Gain flatness (dB)	≤1 (Peak-to-peak value within the operating frequency band)	
ACPR(WCDMA)	ACPR of adjacent channel ≤ -36 dBc	
Input/output port VSWR	≤1.4	
stray emission	Operating frequency band: ≤-36dBm/30kHz Outside the operating frequency band: ≤-30dBm/30kHz	
Power stability	±1dB@25℃～+55℃	
Gain stability	±1.5dB@25℃～+55℃	
public areas		
Power supply requirements	+24VDC≤1.2A; (Single-channel current)	
PA/LNA switching characteristics	TTL level, +3.3V (PA on, LNA off), 0V (PA off, LNA on).	
Switch delay time	≤2us	
Operating ambient temperature	-25～+65℃	

2.Interface Definition

1) RF input connector: IPEX

RF output connector: MCX-KHD;

2）switch interface:

Connect pins 1 and 2 to a TDD switch: PA low level is off, high level (1.8-3.3V) is on;

The LNA is on when low level is on and off when high level (1.8-3.3V).

Pins 3 and 4 are connected to GND, and pins 5 and 6 are connected to GND.

Pins 5 and 6 are connected to +12V to +26V.

3. Appearance Requirements

1) External dimensions: 69×50×11.5mm

2) Module shape

