

TDD1430MHz-(10*2)W RF module specifications (2T2R dual transmit,dual receive)

SN:20230609001

Test Project	Indicators	Remark
----- LNA Section -----		
Operating frequency (MHz)	1428~1468MHz	Frequency can be customized according to customer requirements.
Maximum output power (dBm)	0±1	
Maximum gain (dB)	10±2	
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°C~+55°C	
Gain stability	±1dB@25°C~+55°C	
----- PA Section -----		
Operating frequency (MHz)	1428~1468MHz	Frequency can be customized according to customer requirements.
Output power (dBm)	40±1 dBm	
Maximum gain (dB)	46±1	
Gain flatness (dB)	≤2 (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°C~+55°C	
Gain stability	±1.5dB@25°C~+55°C	
public areas		
Power requirements	+28VDC; ≤2.5A; (maximum current per channel)	
PA/LNA switching characteristics	TTL level, +3.3V (PA on, LNA off), 0V (PA off, LNA on).	
Switch delay time	≤4us	
Operating ambient temperature	-25~+65°C	

2. Interface Definition

1) RF input connector: SMA-50KFD;

RF output connector: SMA-50KFD;

2) switch interface:

Pin 4 connected to PA1 TDD switch: PA low level off, high level (3.3V) on; LNA low level on, high level (3.3V) off.

Pin 6 connects to PA2, a TDD switch: PA low level is off, high level (3.3V) is on; LNA low level is on, high level (3.3V) is off.

1, 2, 5-pin NC

Pins 7 and 8 connected to GND

3. Appearance Requirements

1) External dimensions: 140×97×23mm

2) Module shape

